



www.scrantonsewer.org

Phone: 570-348-5330

312 Adams Avenue, Scranton, PA 18503

Fax: 570-348-5359

Scranton Sewer Authority

February 13, 2015

James Eiden
Keystone Sanitary Landfill
PO Box 249
Dunham Drive
Dunmore, PA 18512

RE: Scranton Sewer Authority Annual Sampling Results- 2014

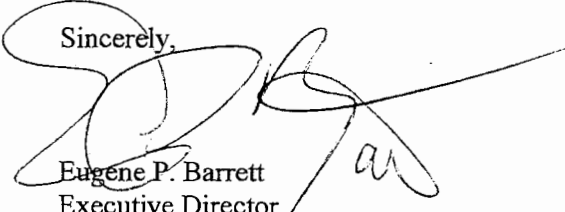
Dear Mr. Eiden,

As you know, the Scranton Sewer Authority is required to sample and inspect all permitted industries once per year as part of the EPA approved Pretreatment Program for the cities of Scranton and Dunmore.

Please find enclosed a copy of the results of the Authority's annual sampling for Keystone Sanitary Landfill, done on December 12, 2014 and the annual inspection which was performed on December 22, 2014.

If you have any questions, you may contact me at 570-348-5338.

Sincerely,



Eugene P. Barrett
Executive Director
Scranton Sewer Authority

CC Letter Only:

Christine Wesolowski, SSA WWTP Manager
E. Tara Roche, SSA MIPP Compliance



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INDUSTRIAL BENCH SHEET

February 13, 2015

Mr. James Eiden
Keystone Sanitary Landfill
Dunham Dr. PO Box #249
Dunmore, PA 18512

Annual Industrial Sampling 2014

Sample Date: December 12, 2014

Parameter	Method	Result	Date Analyzed	Initials
BOD ₅ (mg/l)	StdMtd 18 th 5210B	16.95	12/18/2014	TR
TSS (mg/l)	StdMtd 18 th 2540D	44.00	12/13/2014	TR
pH (pH units)	StdMtd 18 th 4500-H-B	7.25	12/12/2014	TR
pH (pH units)	StdMtd 18 th 4500-H-B	7.20	12/12/2014	TR
pH (pH units)	StdMtd 18 th 4500-H-B	7.20	12/12/2014	TR
pH (pH units)	StdMtd 18 th 4500-H-B	7.47	12/12/2014	TR
pH (pH units)	StdMtd 18 th 4500-H-B	7.45	12/13/2014	TR
pH (pH units)	StdMtd 18 th 4500-H-B	7.53	12/13/2014	TR
pH (pH units)	StdMtd 18 th 4500-H-B	7.73	12/13/2014	TR
Ammonia as N (mg/l)	StdMtd 18 th 4500-NH ₃ N G	18.60	12/13/2014	TR

SCRANTON SEWER AUTHORITY
INDUSTRIAL PRETREATMENT INSPECTION REPORT

Permit No: 97-007 Inspection Date: 12/14/14 Time: 9:48

1. GENERAL INFORMATION:

- a. Facility Name: KEYSTONE SANITARY LANDFILL
- b. Parent Company or Affiliation: _____
- c. Facility Street Address: Dunham Dr, PO Box 24
Dunmore, PA 18512
- d. Facility Mailing Address: _____
- e. Date Present Operation Began at this Facility: 1988
- f. (1) Facility Contact Person: Jim Eiden
Position / Title: Compliance & Plant Manager
Phone # 570.343.5782 Cell # _____
Fax # _____
- (2) Facility Contact Person: _____
Position / Title: _____
Phone # _____ Cell # _____
Fax # _____
- Facility Personnel Present at Inspection: Jim Eiden

2. PRODUCT OR SERVICE INFORMATION:

- a. Narrative description of the primary manufacturing or service activity at the facility:

Sanitary Landfill with leachate collection
and treatment facility & solidified drill
cutting from drill companies.

b. Kind of Operation: Continuous ☒ Seasonal _____ Batch _____

Hours & Days of Operation Explain: _____

c. Major Raw Materials Used: Municipal Waste

d. Major Products or Services of the Operation: Municipal Sanitary
Landfill

e. List all other activities, specific products, and services from this facility e.g., laboratory, research, etc. Laboratory

3. WATER SOURCES AND USE:

a. Raw Water Sources:

Public Water Supply: Yes ☒ No _____ Specify _____

Private Well(s): Yes _____ No _____ Specify _____

Surface Water: Yes _____ No _____ Specify _____

b. Is the raw water source metered: Yes _____ No _____ Explain means of measuring
the water flow: Pump Calibration, calibrated Quarterly

c. Average Daily Water Usage: 55,000 Avg

- d. Describe any water treatment, water conditioning, or purification process utilized:

NA

- e. The company provided an updated process water flow schematic diagram: Yes ☒ No ☐

4. WASTEWATER INFORMATION:

- a. Discharge Method:
1. ☒ public sewer
 2. ☐ surface water
 3. ☐ storm drain
 4. ☐ ground discharge
 5. ☐ waste hauler
- b. Source of Public Wastewater:
1. SSA
 2. _____
 3. _____
 4. _____
- b. Discharge flow is measured: Yes ☒ No ☐. If yes, describe the means of flow measurement: _____
- c. Typical flow of discharge: 90,000-95,000 per day,
_____ per year.
- d. Kind of discharge: Continuous ☒, Batch ☐, Continuous-seasonal ☐
If batch or continuous-seasonal, explain flow, frequency, and quantity per batch: _____
- e. List names of the major chemical constituents in discharging waste: NAHCO₃ (Ammonia), BOD, TSS, Zn
- f. Discharge contains Categorical Standards: Yes ☐ No ☒
If yes, list applicable subpart: _____

5. WASTEWATER PRETREATMENT:

a. Does the facility have an active pretreatment program? Yes ☒ No ☐
If yes, what type of flow? Continuous ☒ Batch ☐

b. Is the process wastewater pretreated prior to discharge to the public sewer?
Yes ☐ No ☐ Describe: Physical - Chemical
pretreatment primary - secondary clarification,
 aerobic tanks, final pH adjustment, solids removed by
plate & frame press

c. Is this facility operation under a compliance schedule to install pretreatment?
Yes ☐ No ☒ Explain: _____

d. Is process wastewater completely separated from the sanitary waste?:
Yes ☒ No ☐ Include schematic flow charts of both process waste and sanitary waste. The charts should show the points of generations (different units making the waste), discharge points to the main collection line, all the floor drains, flow directions, points of treatments, and points of discharge to sewer for both waste flows.
Copy attached? _____ On file?: ☒ Copy requested by SSA? _____

e. In pretreatment of process waste, what parameters require major attention and relatively extensive effort to comply with the permit requirements?
NA

f. Describe any method/procedure that has been adopted and also any future plan that is under consideration by the facility management to reduce the volume and /or strength of the process waste at the point of generation.
NA

- g. Kind of treatment process: Physical Chemical Biological
Combination of some . If a combination, explain the process:
- h. Describe the mechanism or means involved in the pretreatment process:
Flocculation, separation, metal preparation
- i. Include a schematic flow chart of the pretreatment facility and show all the units and different steps of the process.
Copy attached? On file? Copy requested by SSA?
- j. Explain the chemical(s) that are added during pretreatment process and their specific purpose? Caustic (Raise pH) H₂SO₄ (Lower pH) polymer
Flux, phosphoric Acid (added only if too much
is stripped away during process
- k. If the discharge flow is continuous, explain what parameters (in addition to the requirements) are measured, and on what frequencies (daily, weekly, quarterly):
Flow measurement is continuous, pH adjustment
is continuous, permit parameters are quarterly
- l. What means/methods of quality control are used for in-house monitoring of these parameters? Calibration of flow meter, pH meter,
D.O. readings.

- m. List the name, address and phone number of the engineering consultant firm or the individual engineer who assisted with the design of the pretreatment facility:

MAF Pro
ELG New System

- n. Name of the analytical laboratory who analyzes the self-monitoring samples:

Hawk Mountain Labs

- o. Does the analytical laboratory personnel also perform the sampling: Yes ☐ No ☒

If no, name the person(s) who sample and deliver to the laboratory:

Jim Eiden

Is said person an employee of the company? Yes ☒ No ☐

- p. Name the person who operates the pretreatment facility: Jim Eiden

What is said person's credentials: "A" License Wastewater

Is said person a certified operator for industrial waste treatment? Yes ☒ No ☐

If no, explain what technical training they have: _____

- q. Does the pretreatment facility generate any sludge or other residuals as a result of its operation? Yes ☒ No ☐ N/A ☐ Explain: _____

Plate + frame press

If yes, what dewatering process is used to treat the sludge? Explain the method and all the steps of dewatering process: Plate + Frame Press, +

press liquid is sent back to head of plant.

What chemical or chemicals are used in the dewatering process? NONE

What are the percent solids in the dewatered sludge and the monthly average solids generated? %TS: 18-30% Monthly Average (lb/mo): NA
How are the solids wastes stored? _____

r. What is the disposal method of dewatered sludge? Recycling _____ Landfill /
Others _____ Explain: on site

s. Do you use or operate any in-house recycling/recovery method? Yes _____ No _____
N/A _____ If yes, explain: Methane Gas Produced on heat boiler (to heat H₂O)

t. Recommendation of the inspector for pretreatment facility condition, operation and self-monitoring procedure: NA

6. WASTE:

a. Does this facility generate any waste process materials such as spent solvents, spent acids, base, etc.? Yes _____ No / If yes, explain: _____

List quantities generated per month: NA

How are the waste process materials disposed? NA

How are the waste process materials stored? NA

- b. Does this facility generate any solid waste as a result of its operation?

Yes ☒ No ☐ If yes, explain: 8-12 yd³/month

List quantities generated per month: 8-12 yd³/month

How are the waste process materials disposed? Dumpster, then it is landfilled

How are the waste process materials stored? Dumpster

- c. Does this facility have a designated or centralized area for the storage of hazardous waste?

Yes ☐ No ☒ Explain/Comment: _____

7. AIR POLLUTION:

- a. Are there any process tanks greater than 100 gallons? Yes ☐ No ☒

Specify: _____

- b. Are there any heated surface cleaners (e.g., vapor degreasers, etc.)?

Yes ☐ No ☒

- c. Does the facility have any exhaust systems in conjunction with the process operation (e.g., plating tanks, painting rooms, vapor degreaser, etc.)?

Yes ☐ No ☒ if yes, is the system registered? Yes ☐ No ☐

Describe: _____

c. Are there any air pollution control devices: Yes _____ No

Explain: _____

8. CHEMICALS USED AND IN POSSESSION:

List, in this section, all the chemical names, describe in what forms (liquid, slurry, powder, and granule) they are used, mark approximate quantities used (lb/yr), and describe the purpose they are used for (industrial process, laboratory use, pest control, etc.). If chemical group is not found in a group name in the following, list them under "Others."

Example: Hydrochloric Acid (500 lb/yr, liquid, process)

a. Acids: Sulfuric Acid
Phosphoric Acid

b. Ammonium Compounds (ammonia, ammonium hydroxide, ammonium chloride, ammonium nitrate, ammonium persulfate, etc.): NONE

c. Hydroxides/Caustic materials (sodium hydroxide/caustic soda, potassium hydroxide, etc.):

Caustic Soda
50% NaOH

d. Inorganic Salts (chloride):

NONE

e. Trace Metals (Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Silver, Zinc, etc.): NONE

- f. Regulated Volatile Organic Compounds (VOCs) and Solvents (acetone, benzene, ethylene glycol, formaldehyde, methylene, toluene, xylene): NONE
- g. Regulated Synthetic Organic Compounds (SOCs) (various herbicides, pesticides, fungicides, and insecticides): NONE
- h. Biological Cell Products (bacteria, viruses, etc.): NONE
- i. Nuclear Materials (Uranium, Radium, Cobalt Isotope, Nickel Isotope, etc.): NONE
- j. Liquid Chlorine (Hypochlorite) and Chlorine Gas: NONE
- k. Surfactants (detergents, fabric softeners, emulsions, paints, adhesives, biocides, etc.): NONE
- l. Explosive Materials: NONE
- m. Enzyme Products: NONE
- n. Motor Oil, Industrial Oil, Hydraulic Fluid, etc.: NONE
- o. Cooking Grease: NONE

- p. Sugar Syrup, Maple Syrup, Liquid Starch, Glucose and Fructose: NONE
- q. Protein-based Products (proteins, amino acids, etc.): NONE
- r. Others: polymer for floc & settling

9. CHEMICAL STORAGE ROOM:

Describe, in this section, the factors/parameters related to the chemical storage room(s). These factors include: location and size of chemical storage room or stock room, arrangement of different chemicals and distance from the closest floor drain:

- a. Are there raw organic solvents stored in an area appropriately safeguarded against spills reaching the sewers? Yes ___ No ___ Explain: NA
- b. Are there spent organics stored in an area appropriately safeguarded against spills reaching the sewers? Yes ___ No ___ Explain: NA
- c. Do you have a slug control plan? Yes ☒ No ___ If yes, provide SSA with a copy of the plant: _____
- d. Have adequate hauling procedures been developed to prevent the organics used during the process operations from reaching the sewer in amounts exceeding Federal and Local Standard? Yes ___ No ___ Explain: NA
- e. How are the organic solvent used onsite disposed? Explain: NA
- f. Do you use a licensed hauler to haul your hazardous chemicals?
Name: NA Phone No.: NA
Hauling Manifest No.: NA

g. Do you have a designated chemical storage room? Yes ☒ No ☐

If yes, describe: _____

h. Do you have a designated chemical storage area? Yes ☐ No ☒

If yes, describe: _____

i. Are the reactive chemicals stored separately? Yes ☐ No ☐

If yes, describe: ACIDS & CAUSTICS

Ventilation of chemical storage room or area: Yes ☒ No ☐ Describe: _____

Adequate ventilation ☒ Inadequate ventilation ☐ Describe: _____

Storage room security (door, lock, etc.): Yes ☐ No ☐ Describe: _____

Pretreatment facility locked at night

Fire protection means: Adequate ☐ Inadequate ☐ Describe: _____

Fire Extinguisher & hose

Distance of storage room, or area, to the points of use:

5 feet

j. Chemical Transportation: Describe means of transport of chemicals from storage room or area to points of use (fork lift, hand truck, by hand, etc.):

Pumped from Carboys

9. CHEMICAL SPILL CONTAINMENT:

- a. Chemical Spill Containment: Yes ☒ No ☐ No. of Containments: _____
- b. Describe type, shape, and size of each containment: _____

The whole treatment facility can contain & direct a spill back through facility

- c. Structure of the containments (concrete, blocks, metal, double-wall container, spill skids etc.):

NA

- d. Are the containment's volumes adequate to hold the maximum spill? Yes ☒ No ☐
- e. Are any floor drains in the containment area or in the vicinity of the storage room or area? Yes ☒ No ☐ If yes, Explain the possibility of spill into the drain: _____

All drains lead back to head of treatment plant

11. EMERGENCY SPILL PLAN:

- a. Do you have a written emergency plan? Yes ☒ No ☐ Under preparation _____
- Copy attached? _____ On file?: _____ Copy requested by SSA? _____

- b. Do you have a designated group or persons for an emergency: Yes ☒ No ☐
- If yes, provide SSA with the names and phone numbers: Jim Eidun

Datom

Is any type of emergency drill practiced? Yes ☐ No ☐

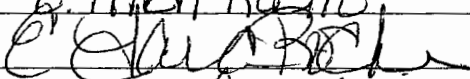
How often? _____

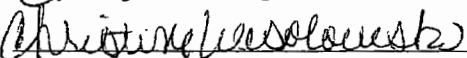
- c. Is any general all-staff emergency training given: Yes ☒ No ☐
What is the date of latest training: 12/1 year
- d. Do you conduct general staff safety meetings? Yes ☒ No ☐
How often? every morning
Is chemical spill a subject of regular safety meetings: Yes ☒ No ☐
- e. Do you have a designated outside spill clean up team/company: Yes ☒ No ☐
If yes, provide SSA with the names and phone numbers: Datom Products
- f. Describe preparations for a spot spill clean up (sponge, blanket, absorbent, clean up kit, etc.):
Absorbent kits
- g. Has there been any chemical spills in the last twelve months?: Yes ☐ No ☒
If yes, describe the kind and size of spill as well as the type of control/clean up work performed: _____

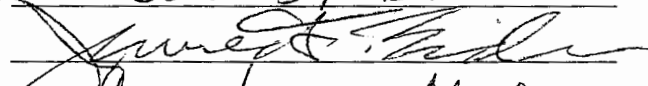
12. COMMENTS AND OBSERVATIONS NOTED DURING INSPECTION:

NA

14. INSPECTION PARTICIPANTS:

Print Name: E. TARA ROCHE
Signature: 
Title: MPP Compliance
Date: 12/22/14

Print Name: Christine Wesolowski
Signature: 
Title: WWTP Manager
Date: 12/22/14

Print Name: James F. Eiden
Signature: 
Title: Compliance Mgr
Date: 12/22/14

Print Name: _____
Signature: _____
Title: _____
Date: _____

Print Name: _____
Signature: _____
Title: _____
Date: _____



January 8, 2015

Mr. Jay Nardone
Scranton Sewer Authority
312 Adams Avenue
Scranton, PA 18503

RE: LEACHATE/TREATMENT PLANT EFFLUENT

Dear Mr. Barrett:

Attached please find the analysis for the Leachate/Treatment Plant Effluent and the Chain of Custody for the fourth quarter.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please call.

Sincerely,

A handwritten signature in black ink, appearing to read "J E Dexter", is written over the printed name.

Joseph E. Dexter, P.E.
Site Manager

Report Narrative

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 1/7/2015

Page 1 of 3

HawkMtn WO #: 1411-00019
Subject Line: Quarterly Treatment Plant Effluent, Day 1

Any information provided by client (CLT) has not been performed by HML and is not within the HML scope of accreditation.

All solid samples are reported on an "as received" basis unless otherwise noted.

Data Qualifiers:

- A = Insufficient sample to run all required quality control
- B = Analyte found in the method blank
- C = Analyte has been confirmed by another instrument or method
- D = Sample or extract was analyzed at a higher dilution.
- E = Analyte exceeds the upper limit of the calibration curve
- F = Lab fortified blank had a difference outside the QC limits
- G = Failure in the ending calibration check. The average sum for the ending calibration check meets method requirements.
- H = Sample run past hold time
- I = Initial Calibration Verification was outside QC limits
- J = Estimated concentration of an analyte between MDL (LOD) and Reporting Limit (LOQ)
- K = Dissolved sample was not run because total was non-detect
- L = Sample not received in proper container
- M = Matrix spike recovery was outside QC limits
- N = Analyte is NOT accredited under the HML scope of accreditation
- Q = Second Source Calibration Verification was outside QC limits
- R = Duplicate/Matrix spike duplicate had a relative percent difference outside QC limits
- S = Surrogate out of control limits
- V = Continuing Calibration Verification was outside QC limits
- X = User defined data qualifier

Limit of Quantitation (LOQ) = Laboratory Reporting Limit

Limit of Detection (LOD) = Laboratory Detection Limit

The test results meet the requirements of the 2009 TNI Standard and the 25 PA Code, Chapter 252, except where noted.

The information contained in this analytical report is the sole property of Hawk MTN Laboratories, Inc.

and that of the client. It cannot be reproduced in any form without the consent of Hawk MTN Labs, Inc. or the client for which this report was issued. The results contained in this report(s) are only representative of the sample(s) received. Conditions are dependant on location and time of the sampling event.

Hawk MTN Laboratories, Inc. is not responsible for use or interpretation of the data included herein.



PA DEP 40-417 EPA PA00169

Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 1/7/2015

Page 2 of 3

Material Tested: Non Potable Water HawkMtn WO #: 1411-00019-001
Date Sampled: 12/08/2014 Time Sampled: 9:45 Sampler: CLIENT
Date Received: 12/08/2014 Sample Point ID: Effluent, Day 1

Client Sample ID: Treatment Plant Effluent, Day 1

Test Name	Test Results	Qual	Method	Quant Limit	Tech	Analysis Date/Time
pH, Field	7.02 su	N	SM 4500-H+B	0	Client	12/8/14
Color, Platinum-Cobalt	300 Pt-Co unit	N	SM 2120 B	1.0	JB	12/12/14
Total Suspended Solids	34 mg/l		SM 2540 D	5	NAM	12/9/14
Biochemical Oxygen Demand	16.1 mg/l		SM 5210 B	6	EM	12/8/14
Cyanide	0.015 mg/l		SM 4500-CN E	0.01	APD	12/22/14
Surfactants, MBAS	<0.2 mg/l	M	SM 5540 C	0.2	JO	12/9/14
Arsenic, Total ICP-MS	0.0094 mg/l		EPA 200.8	0.001	EW	12/12/14
Cadmium, Total ICP-MS	<0.001 mg/l		EPA 200.8	0.001	EW	12/12/14
Copper, Total ICP-MS	0.0140 mg/l		EPA 200.8	0.001	EW	12/12/14
Chromium, Total ICP-MS	0.0169 mg/l		EPA 200.8	0.001	EW	12/12/14
Chromium, Hexavalent	<0.25 mg/l		SM 3500-Cr B	0.25	JB	12/9/14
Mercury, Total	<0.0001 mg/l	D,J	EPA 245.7	0.0001	CS	12/10/14
Nickel, Total ICP-MS	0.0281 mg/l		EPA 200.8	0.001	EW	12/12/14
Lead, Total ICP-MS	<0.001 mg/l		EPA 200.8	0.001	EW	12/12/14
Silver, Total ICP-MS	<0.005 mg/l		EPA 200.8	0.005	EW	12/12/14
Zinc, Total ICP-MS	0.1400 mg/l	D	EPA 200.8	0.005	EW	12/12/14
Total Petroleum Hydrocarbon	<2.0 mg/l		EPA 1664	2.0	JO	12/16/14
Oil and Grease	<4.0 mg/l	F	EPA 1664 A	4.0	JO	12/11/14
Temp Upon Receipt	5.6 C	N		0	JZO	12/8/14
Transported on loose ice	YES			0	JZO	12/8/14
Acrolein	<0.0500 mg/l		SW846-8260	0.0050	JA	12/9/14
Acrylonitrile	<0.0200 mg/l		SW846-8260	0.0020	JA	12/9/14
Benzene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
Bromodichloromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
Bromoform	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
Bromomethane	<0.0100 mg/l	G	SW846-8260	0.0010	JA	12/9/14
Carbon Tetrachloride	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
Dibromochloromethane	<0.0100 mg/l		SW846-8260	0.0005	JA	12/9/14
Chlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
Chloroethane	<0.0100 mg/l	G	SW846-8260	0.0010	JA	12/9/14
2-Chloroethyl Vinyl Ether	<0.0200 mg/l		SW846-8260	0.0020	JA	12/9/14
Chloroform	<0.0100 mg/l	V	SW846-8260	0.0010	JA	12/9/14
Chloromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
1,2-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
1,3-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14

Certificate of AnalysisCustomer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 1/7/2015

Page 3 of 3

Material Tested:	Non Potable Water	HawkMtn WO #:	1411-00019-001
Date Sampled:	12/08/2014	Time Sampled:	9:45
Date Received:	12/08/2014	Sampler:	CLIENT
		Sample Point ID:	Effluent, Day 1

Client Sample ID: Treatment Plant Effluent, Day 1

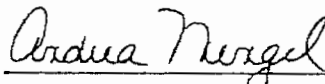
Test Name	Test Results	Qual	Method	Quant	Tech	Analysis Date
				Limit		
1,4-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
1,1-Dichloroethane	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
1,2-Dichloroethane	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
trans-1,2-Dichloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
trans-1,3-Dichloropropene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
1,1-Dichloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
1,2-Dichloropropane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
cis-1,3-Dichloropropene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
Ethylbenzene	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
ethylene Chloride	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
Methyl Chloride	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
Methyl Bromide	<0.0100 mg/l	G	SW846-8260	0.0010	JA	12/9/14
1,1,2,2-Tetrachloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
Tetrachloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
Toluene	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
1,1,1-Trichloroethane	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
1,1,2-Trichloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
Trichloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
Trichlorofluoromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
Vinyl Chloride	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
Xylene	<0.0300 mg/l		SW846 8260	0.0030	JA	12/9/14
Ammonia-Nitrogen	21.9 mg/l		SM 4500-NH3 F	0.5	APO	12/18/14

MBAS, calculated as LAS, molecular weight 60.

These results relate only to the sample noted above.

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Ronald Andrae, Technical Director



Andrea Mengel, Quality Director

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

HAWKMTN LABS, INC.
201 W. Clay Ave., Hazle Township, PA 18202
Phone (570) 455-6011 Fax (570) 455-6321

Chain of Custody

Samples Intact?	<input checked="" type="checkbox"/> Y	N
Transported on ice?	<input checked="" type="checkbox"/> Y	N
COC intact and complete?	<input checked="" type="checkbox"/> Y	N
Correct containers?	<input checked="" type="checkbox"/> Y	N
Adequate samples?	<input checked="" type="checkbox"/> Y	N
Volatiles: headspace present?	<input checked="" type="checkbox"/> Y	N
Completed by:	JZO	
Samples/COC/Analysis agree?	<input checked="" type="checkbox"/> Y	N

Subject Line: Quarterly Treatment Plant Effluent, Day 1
Work Order #: 1411-00019 Sample ID: Effluent, Day 1
Sample 001: Treatment Plant Effluent, Day 1

Matrix: Waste Water

pH, Field	WA-FPH	<u>10.0</u>	su
Temp Upon Receipt	QC-TEMPREC	<u>5.6</u>	C
Transported on loose ice	QC-ICE	<u>Yes</u>	
pH meter ID	QC-PHMETER	<u>N/A</u>	

Tech	Bottles:	pH	Cl	Tech
<u>JZO</u>	<input checked="" type="checkbox"/> 2 Glass, 1 Liter H2SO4	<u>7.2</u>	<u>0</u>	<u>JZO</u>
<u>JZO</u>	<input checked="" type="checkbox"/> 1 Plastic, 500 ml NaOH Pellets + 1g Ascorbic Acid	<u>7.2</u>	<u>0</u>	<u>JZO</u>
<u>JZO</u>	<input checked="" type="checkbox"/> 1 plastic half gallon Unpreserved Liter	<u>7.2</u>	<u>0</u>	<u>JZO</u>
<u>JZO</u>	<input checked="" type="checkbox"/> Plastic, 250ml HNO3	<u>7.2</u>	<u>0</u>	<u>JZO</u>
	<input checked="" type="checkbox"/> Plastic, 500 ml H2SO4	<u>7.2</u>	<u>0</u>	<u>JZO</u>
	<input checked="" type="checkbox"/> SS Plastic, 1 Liter Unpreserved	<u>7.2</u>	<u>0</u>	<u>JZO</u>
	<input checked="" type="checkbox"/> 8 Vials, 40ml HCL + 2 trip blanks	<u>7.2</u>	<u>0</u>	<u>JZO</u>
	<input checked="" type="checkbox"/> 3 Vials, 40 ml Unpreserved + 2 trip blanks	<u>7.2</u>	<u>0</u>	<u>JZO</u>

Printed By: UBM

Printed On: 10/27/2014

Approved By: DA

Sampling Comments:

Bottles Made By: UBM Bottles Checked By: DA Composite Sample: Start Time/Date: 42/7/14 9am End Time/Date: 7am 12/8/14

NOTES:

Headspace HCL-A
One unpreserved trip Blank
received broken.

Sampled By: JZO

Relinquished By: JZO

Received By: Joseph Oat

Relinquished By: Joseph Oat

Received at Lab By: Joseph Oat

Logged in By: Joseph Oat

Date: Time:

<u>12/8/14</u>	<u>9:45</u>
<u>12/8/14</u>	<u>1310</u>
<u>12/8/14</u>	<u>1310</u>
<u>12/8/14</u>	<u>1430</u>
<u>12/8/14</u>	<u>1452</u>

Report Narrative

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 1/7/2015

Page 1 of 3

HawkMtn WO #: 1411-00020
Subject Line: Quarterly Treatment Plant Effluent, Day 2

Any information provided by client (CLT) has not been performed by HML and is not within the HML scope of accreditation.

All solid samples are reported on an "as received" basis unless otherwise noted.

Data Qualifiers:

- A = Insufficient sample to run all required quality control
- B = Analyte found in the method blank
- C = Analyte has been confirmed by another instrument or method
- D = Sample or extract was analyzed at a higher dilution.
- E = Analyte exceeds the upper limit of the calibration curve
- F = Sub fortified blank had a difference outside the QC limits
- G = Failure in the ending calibration check. The average sum for the ending calibration check meets method requirements.
- H = Sample run past hold time
- I = Initial Calibration Verification was outside QC limits
- J = Estimated concentration of an analyte between MDL (LOD) and Reporting Limit (LOQ)
- K = Dissolved sample was not run because total was non-detect
- L = Sample not received in proper container
- M = Matrix spike recovery was outside QC limits
- N = Analyte is NOT accredited under the HML scope of accreditation
- Q = Second Source Calibration Verification was outside QC limits
- R = Duplicate/Matrix spike duplicate had a relative percent difference outside QC limits
- S = Surrogate out of control limits
- V = Continuing Calibration Verification was outside QC limits
- X = User defined data qualifier

Limit of Quantitation (LOQ) = Laboratory Reporting Limit

Limit of Detection (LOD) = Laboratory Detection Limit

The test results meet the requirements of the 2009 TNI Standard and the 25 PA Code, Chapter 252, except where noted.

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Hawk MTN Laboratories, Inc. is not responsible for use or interpretation of the data included herein.



PA DEP 40-417
EPA PA00169



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Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 1/7/2015

Page 2 of 3

Material Tested: Non Potable Water HawkMtn WO #: 1411-00020-001
Date Sampled: 12/09/2014 Time Sampled: 9:30 Sampler: CLIENT
Date Received: 12/09/2014 Sample Point ID: Effluent, Day 2

Client Sample ID: Treatment Plant Effluent, Day 2

Test Name	Test Results	Qual	Method	Quant	Tech	Analysis Date/Time
				Limit		
pH, Field	6.69 su	N	SM 4500-H+B	0	Client	12/9/14
Color, Platinum-Cobalt	220 Pt-Co unit	N	SM 2120 B	1.0	JB	12/12/14
Total Suspended Solids	7.6 mg/l		SM 2540 D	5	NAM	12/10/14
Biochemical Oxygen Demand	18.0 mg/l		SM 5210 B	6	EM	12/10/14
Cyanide	0.016 mg/l	M	SM 4500-CN E	0.01	APO	12/12/14
Surfactants, MBAS	<0.2 mg/l	M	SM 5540 C	0.2	JO	12/10/14
Arsenic, Total ICP-MS	0.0087 mg/l		EPA 200.8	0.001	EW	12/12/14
Cadmium, Total ICP-MS	<0.001 mg/l		EPA 200.8	0.001	EW	12/12/14
Copper, Total ICP-MS	0.0105 mg/l		EPA 200.8	0.001	EW	12/12/14
Chromium, Total ICP-MS	0.0118 mg/l		EPA 200.8	0.001	EW	12/12/14
Chromium, Hexavalent	<0.25 mg/l		SM 3500-Cr B	0.25	JB	12/9/14
Mercury, Total	<0.0001 mg/l	D,J	EPA 245.7	0.0001	CS	12/18/14
Nickel, Total ICP-MS	0.0201 mg/l		EPA 200.8	0.001	EW	12/12/14
Lead, Total ICP-MS	<0.001 mg/l		EPA 200.8	0.001	EW	12/12/14
Silver, Total ICP-MS	<0.005 mg/l		EPA 200.8	0.005	EW	12/12/14
Zinc, Total ICP-MS	0.0611 mg/l		EPA 200.8	0.005	EW	12/12/14
Total Petroleum Hydrocarbon	<2.0 mg/l		EPA 1664	2.0	JO	12/16/14
Oil and Grease	<4.0 mg/l	F	EPA 1664 A	4.0	JO	12/11/14
Temp Upon Receipt	5.4 C			0	JZO	12/9/14
Transported on loose ice	YES			0	JZO	12/9/14
Acrolein	<0.0500 mg/l		SW846-8260	0.0050	JA	12/9/14
Acrylonitrile	<0.0200 mg/l		SW846-8260	0.0020	JA	12/9/14
Benzene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
Bromodichloromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
Bromoform	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
Bromomethane	<0.0100 mg/l	G	SW846-8260	0.0010	JA	12/9/14
Carbon Tetrachloride	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
Dibromochloromethane	<0.0100 mg/l		SW846-8260	0.0005	JA	12/9/14
Chlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
Chloroethane	<0.0100 mg/l	G	SW846-8260	0.0010	JA	12/9/14
2-Chloroethyl Vinyl Ether	<0.0200 mg/l		SW846-8260	0.0020	JA	12/9/14
Chloroform	<0.0100 mg/l	V	SW846-8260	0.0010	JA	12/9/14
Bromomethane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
1,2-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
1,3-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14

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Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 1/7/2015

Page 3 of 3

Material Tested: Non Potable Water HawkMtn WO #: 1411-00020-001
Date Sampled: 12/09/2014 Time Sampled: 9:30 Sampler: CLIENT
Date Received: 12/09/2014 Sample Point ID: Effluent, Day 2

Client Sample ID: Treatment Plant Effluent, Day 2

Test Name	Test Results	Qual	Method	Quant	Tech	Analysis Date
				Limit		
1,4-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
1,1-Dichloroethane	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
1,2-Dichloroethane	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
trans-1,2-Dichloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
trans-1,3-Dichloropropene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
1,1-Dichloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
1,2-Dichloropropane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
1,3-Dichloropropene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
benzene	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
Methylene Chloride	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
Methyl Chloride	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
Methyl Bromide	<0.0100 mg/l	G	SW846-8260	0.0010	JA	12/9/14
1,1,2,2-Tetrachloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
Tetrachloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
Toluene	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
1,1,1-Trichloroethane	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
1,1,2-Trichloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
Trichloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
Trichlorofluoromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/9/14
Vinyl Chloride	<0.0100 mg/l		SW846 8260	0.0010	JA	12/9/14
Xylene	<0.0300 mg/l		SW846 8260	0.0030	JA	12/9/14
Ammonia-Nitrogen	26.8 mg/l		SM 4500-NH3 F	0.5	APO	12/18/14

MBAS, calculated as LAS, molecular weight 60.

These results relate only to the sample noted above.

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Ronald Andrae, Technical Director

Andrea Mengel, Quality Director

PA DEP 40-417
EPA PA00169

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

HAWKMTN LABS, INC.
201 W. Clay Ave., Hazle Township, PA 18202
Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples Intact?	Y	N
Transported on ice?	Y	N
COC intact and complete?	Y	N
Correct containers?	Y	N
Adequate samples?	Y	N
Volatiles: headspace present?	Y	N
Completed by:	JZO	
Samples/COC/Analysis agree?	Y	N

Subject Line: Quarterly Treatment Plant Effluent, Day 2

Matrix: Waste Water

Work Order #: 1411-00020 Sample ID: Effluent, Day 2

Sample 001: Treatment Plant Effluent, Day 2

pH, Field	WA-FPH	6.69	su
Temp Upon Receipt	QC-TEMPREC	5.4	C
Transported on loose ice	QC-ICE	Yes	
pH meter ID	QC-PHMETER	N/A	

Tech	Bottles:	pH	Cl	Tech
JZO	2 Glass, 1 Liter H2SO4	—	—	JZO
JZO	1 Plastic, 500 ml NaOH Pellets + 1g Ascorbic Acid	7.2	0	JZO
JZO	1 plastic half gallon Unpreserved Water	—	—	JZO
JZO	2 Plastic, 250ml HNO3	2.2	—	JZO
JZO	2 Plastic, 500 ml H2SO4	2.2	0	JZO
	1 SS Plastic, 1 Liter Unpreserved	—	—	JZO
	3 Vials, 40ml HCL + 2 trip blanks	—	—	JZO
	3 Vials, 40 ml Unpreserved + 2 trip blanks	—	—	JZO

Printed By: UOM

Printed On: 10/27/2014

Approved By: APD

Sampling Comments:

Bottles Made By: UOM Bottles Checked By: JZO Composite Sample: Start Time/Date: 10/28/14 9am End Time/Date: 12/9/14 9am

NOTES:

HCL-A

Sampled By:

Relinquished By:

Received By:

Relinquished By:

Received at Lab By:

Logged in By:

Date:

Time:

12/9/14

9:30am

12/9/14

1000

12/9/14

1000

12/9/14

1105

12/9/14

1159



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Report Narrative

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 1/7/2015

Page 1 of 3

HawkMtn WO #: 1411-00021
Subject Line: Quarterly Treatment Plant Effluent, Day 3

Any information provided by client (CLT) has not been performed by HML and is not within the HML scope of accreditation.

All solid samples are reported on an "as received" basis unless otherwise noted.

Data Qualifiers:

- A = Insufficient sample to run all required quality control
- B = Analyte found in the method blank
- C = Analyte has been confirmed by another instrument or method
- D = Sample or extract was analyzed at a higher dilution.
- E = Analyte exceeds the upper limit of the calibration curve
- F = No fortified blank had a difference outside the QC limits
- G = Failure in the ending calibration check. The average sum for the ending calibration check meets method requirements.
- H = Sample run past hold time
- I = Initial Calibration Verification was outside QC limits
- J = Estimated concentration of an analyte between MDL (LOD) and Reporting Limit (LOQ)
- K = Dissolved sample was not run because total was non-detect
- L = Sample not received in proper container
- M = Matrix spike recovery was outside QC limits
- N = Analyte is NOT accredited under the HML scope of accreditation
- Q = Second Source Calibration Verification was outside QC limits
- R = Duplicate/Matrix spike duplicate had a relative percent difference outside QC limits
- S = Surrogate out of control limits
- V = Continuing Calibration Verification was outside QC limits
- X = User defined data qualifier

Limit of Quantitation (LOQ) = Laboratory Reporting Limit

Limit of Detection (LOD) = Laboratory Detection Limit

The test results meet the requirements of the 2009 TNI Standard and the 25 PA Code, Chapter 252, except where noted.

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Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 1/7/2015

Page 2 of 3

Material Tested: Non Potable Water HawkMtn WO #: 1411-00021-001
Date Sampled: 12/10/2014 Time Sampled: 9:30 Sampler: CLIENT
Date Received: 12/10/2014 Sample Point ID: Effluent, Day 3

Client Sample ID: Treatment Plant Effluent, Day 3

Test Name	Test Results	Qual	Method	Quant	Tech	Analysis Date/Time
				Limit		
pH, Field	6.6 su	N	SM 4500-H+B	0	Client	12/10/14
Color, Platinum-Cobalt	260 Pt-Co unit	N	SM 2120 B	1.0	JB	12/12/14
Total Suspended Solids	18 mg/l		SM 2540 D	5	NAM	12/11/14
Biochemical Oxygen Demand	20.2 mg/l		SM 5210 B	6	EM	12/10/14
Cyanide	0.02 mg/l		SM 4500-CN E	0.01	APO	12/12/14
Surfactants, MBAS	<0.2 mg/l	M	SM 5540 C	0.2	JO	12/11/14
Arsenic, Total ICP-MS	0.0097 mg/l		EPA 200.8	0.001	EW	12/19/14
Cadmium, Total ICP-MS	<0.001 mg/l		EPA 200.8	0.001	EW	12/19/14
Copper, Total ICP-MS	0.0161 mg/l		EPA 200.8	0.001	EW	12/19/14
Chromium, Total ICP-MS	0.0157 mg/l		EPA 200.8	0.001	EW	12/19/14
Chromium, Hexavalent	<0.25 mg/l	M	SM 3500-Cr B	0.25	JB	12/10/14
Mercury, Total	0.00017 mg/l	D,J	EPA 245.7	0.0001	CS	12/18/14
Nickel, Total ICP-MS	0.0233 mg/l		EPA 200.8	0.001	EW	12/19/14
Lead, Total ICP-MS	<0.001 mg/l		EPA 200.8	0.001	EW	12/19/14
Silver, Total ICP-MS	<0.005 mg/l		EPA 200.8	0.005	EW	12/19/14
Zinc, Total ICP-MS	0.1040 mg/l	D	EPA 200.8	0.005	EW	12/19/14
Total Petroleum Hydrocarbon	<2.0 mg/l		EPA 1664	2.0	JO	12/16/14
Oil and Grease	<4.0 mg/l	F	EPA 1664 A	4.0	JO	12/11/14
Temp Upon Receipt	4.8 C	N		0	JZO	12/10/14
Transported on loose ice	YES			0	JZO	12/10/14
Acrolein	<0.0500 mg/l		SW846-8260	0.0050	JA	12/10/14
Acrylonitrile	<0.0200 mg/l		SW846-8260	0.0020	JA	12/10/14
Benzene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
Bromodichloromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
Bromoform	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
Bromomethane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
Carbon Tetrachloride	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
Dibromochloromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
Chlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
Chloroethane	<0.0100 mg/l	V	SW846-8260	0.0010	JA	12/10/14
2-Chloroethyl Vinyl Ether	<0.0200 mg/l		SW846-8260	0.0020	JA	12/10/14
Chloroform	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
Perchloromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
1,3-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14

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Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 1/7/2015

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Material Tested: Non Potable Water HawkMtn WO #: 1411-00021-001
Date Sampled: 12/10/2014 Time Sampled: 9:30 Sampler: CLIENT
Date Received: 12/10/2014 Sample Point ID: Effluent, Day 3
Client Sample ID: Treatment Plant Effluent, Day 3

Test Name	Test Results	Qual	Method	Quant	Tech	Analysis Date
				Limit		
1,4-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
1,1-Dichloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
1,2-Dichloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
trans-1,2-Dichloroethene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
trans-1,3-Dichloropropene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
1,1-Dichloroethene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
1,2-Dichloropropane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
1,3-Dichloropropene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
Benzene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
Methylene Chloride	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
Methyl Chloride	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
Methyl Bromide	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
1,1,2,2-Tetrachloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
Tetrachloroethene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
Toluene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
1,1,1-Trichloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
1,1,2-Trichloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
Trichloroethene	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
Trichlorofluoromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
Vinyl Chloride	<0.0100 mg/l		SW846-8260	0.0010	JA	12/10/14
Xylene	<0.0300 mg/l		SW846-8260	0.0030	JA	12/10/14
Ammonia-Nitrogen	23.8 mg/l		SM 4500-NH3 F	0.5	APO	12/18/14

VOC Analysis: 1st surrogate recovery fails low in the start blank. 2nd surrogate area counts fail low in

the Continuing Calibration Verification (CCV) at 40.0.

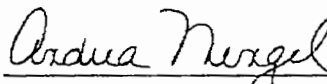
MBAS, calculated as LAS, molecular weight 60.

These results relate only to the sample noted above.

This certificate is not to be reproduced except in full,
without the written approval of HawkMtn Labs



Ronald Andrae, Technical Director



Andrea Mengel, Quality Director

Customer: Leystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

HAWKMTN LABS, INC.
201 W. Clay Ave., Hazle Township, PA 18202
Phone (570) 455-6011 Fax (570) 455-6321

Chain of Custody

Samples intact?	Y / N
Transported on ice?	Y / N
COC intact and complete?	Y / N
Correct containers?	Y / N
Adequate samples?	Y / N
Volatiles: headspace present?	Y / N
Completed by:	JZO
Samples/COC/Analysis agree?	Y / N / Am

Subject Line: Quarterly Treatment Plant Effluent, Day 3
Work Order #: 1411-00021 Sample ID: Effluent, Day 3
Sample 001: Treatment Plant Effluent, Day 3

Matrix: Waste Water

pH, Field	WA-FPH	6.6	su
Temp Upon Receipt	QC-TEMPREC	4.8	C
Transported on loose ice	QC-ICE	Yes	
pH meter ID	QC-PHMETER	N/A	

Tech	Bottles:	pH	Cl	Tech
JZO	2 Glass, 1 Liter H2SO4	—	—	JZO
JZO	1 Plastic, 500 ml NaOH Pellets + 1g Ascorbic Acid	7.2	—	JZO
JZO	1 plastic half-gallon Unpreserved Liter	—	—	JZO
JZO	1 Plastic, 250ml HNO3	2.2	—	JZO
JZO	1 Plastic, 500 ml H2SO4	2.2	—	JZO
	1 TSS Plastic, 1 Liter Unpreserved	—	—	JZO
	3 Vials, 40ml HCL + 2 trip blanks	—	—	JZO
	3 Vials, 40 ml Unpreserved + 2 trip blanks	—	—	JZO

Printed By: JBM

Printed On: 10/27/2014

Approved By: JZO

Sampling Comments:

Bottles Made By: JBM Bottles Checked By: JZO Composite Sample: Start Time/Date: 12/9/14 9am End Time/Date: 12/10/14 9am

NOTES:

Sampled By: [Signature]
Relinquished By: [Signature]
Received By: Joseph Orl
Relinquished By: [Signature]
Received at Lab By: [Signature]
Logged in By: [Signature]

Date:	Time:
12/10/14	9:30am
12/10/14	11:15
12/10/14	11:15
12/10/14	13:25
12/10/14	14:33



www.scrantonsewer.org

Phone: 570-348-5330

312 Adams Avenue, Scranton, PA 18503

Fax: 570-348-5359

Scranton Sewer Authority

October 31, 2014

Mr. James Eiden
Keystone Sanitary Landfill
Dunham Dr. P.O. Box 24
Dunmore, PA 18512

RE: SSA PRETREATMENT PERMIT #: 97-007

Dear Mr. Eiden:

I am writing to remind you about several key monitoring, reporting, and related requirements that are part of the federal pretreatment program and your referenced SSA pretreatment permit. Thank you for taking the time to review the following information and reminders:

1. **Monitoring Reports:** Results obtained shall be summarized and reported once per quarter. The reports are due on the 28th day of the month following the end of each quarter as follows: **April 28th, July 28th, October 28th, and January 28th.**
2. **Additional Monitoring:** If the permittee monitors any pollutant more frequently than required by the Permit, using test procedures prescribed in 40 CFR Part 136 or amendment thereto, or otherwise approved by EPA or as specified in the permit, the results of such monitoring shall be included in any calculation of actual daily maximum pollutant discharge and the results shall be reported in the quarterly report submitted to the Scranton Sewer Authority. Such increased monitoring frequency shall also be indicated in the quarterly report.
3. **Automatic Resampling:** If the results of the permittees discharge analysis indicate that a violation of the permit has occurred, the permittee **MUST:**
 - Notify the SSA of the violation within **24 hours** of becoming aware of the violation; and
 - Repeat** the sampling and analysis for each parameter which has been violated, within 30 days of receipt of notice of the initial results showing a violation. The results of the resampling must be submitted to SSA promptly.

Spills & Unusual Discharges: The Permittee shall provide protection from accidental spills and non-routine batch discharges. Facilities, equipment, and materials, to prevent these accidental or non-routine discharges shall be provided and maintained at the permittees own cost and expense. Detailed plans showing facility and operating procedures to provide this protection shall be submitted to the City Emergency Management Coordinator, the County Emergency Management Coordinator, and the Scranton Sewer Authority, for review and comment, before the implementation of the plan. Spill/discharge prevention plans shall contain at least the following elements:

- A description of discharge practices, including non-routine batch discharges;
- A list and description of stored chemicals;
- Procedures for promptly notifying the Control Authority of Slug Load discharges, including any discharge that would violate a specific prohibition under 40 CFR 403.5 (b) with procedures for follow-up written notification within **5 days**;
- Procedures to prevent adverse impact from accidental spills, including inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site run-off, worker training, building of containment structures or equipment, measures for containing toxic organic Pollutants (including solvents), and/or measures and equipment for emergency response; and
- If necessary, follow-up practices to limit the damage suffered by the POTW or environment.

The Permittee shall complete such a plan, and/or an updated Plan from existing industries, within six months of the effective date of this permit. Review and approval of such plan and operating procedures shall not relieve the Permittee from the responsibility to modify the Permittee's facility as necessary to meet the requirements of the SSA's Sewer Use Ordinance or its Pretreatment Permit

4. As set for in file of Council No. 145-1992, et. Seq, Non-Residential establishments discharging Industrial Wastes to the Sewer System having an average 5-day Biological Oxygen Demand (BOD) greater than **330 mg/l** (Quarterly Monitoring), a Total Suspended Solids concentration greater than **350 mg/l** (Annual Monitoring), or an Ammonia Nitrogen concentration greater than **23 mg/l** (Quarterly Monitoring) are subject to a strength of waste discharge.

5. **Penalties / Costs.** Please be reminded of the applicability of the following federal provisions in relation to your compliance with the referenced SSA pretreatment permit:

Criminal Liability:

"Any person who willingly or negligently violates any provision under this Permit or who knowingly makes any false statements, representation or certification in any application, record, report, plan, or other document filed or required to be maintained pursuant to this Wastewater Contribution Permit, or who falsifies,

tampers with, or knowingly renders inaccurate any monitoring device or method required under this Permit, the Control Authority Solicitor may request the District Attorney of Lackawanna County to commence appropriate legal action.”

Civil Penalties:

Any user who is found to have violated an Order of the Control Authority or fails to comply with any provision of this Resolution, or any orders, rules, regulations and permits issued hereunder, shall be fined not more than \$10,000 for each offense. Each day on which a violation shall occur or continue shall be deemed a separate and distinct offense. In addition to the penalties provided herein, the Control Authority may recover reasonable attorneys' fees, court costs, court reporters' fees and other expenses of litigation by appropriate suit at law against the Person found to have violated this Resolution or the orders, rules, regulations, and permits, issued hereunder.

Criminal Penalties

Any individual who knowingly, willfully, or intentionally makes any false statements, representation or certification in any application, record, report, plan, or other document filed or required to be maintained pursuant to this Resolution, or Wastewater Contribution Permit, or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required under this Resolution, shall upon conviction, be punished by a fine of not less than \$1,000 or more than \$100,000 and/or by imprisonment for not more than one year.

Recovery of Costs Incurred

In addition to Civil and Criminal Penalties, the Industrial User violating any of the provisions of this Resolution of the Industrial User's Wastewater Contribution Permit that causes damage to or otherwise inhibits the Control Authority's Sewer System and/or Sewage Treatment Plant, shall be liable to the Control Authority for any expenses, loss, or damage caused by the violation or discharge. The Control Authority shall bill the Industrial User for the costs incurred by the Control Authority for any cleaning, repair, or replacement work caused by the violation or discharge. Refusal to pay the assessed costs shall constitute a separate violation of this Resolution and subject the Industrial User to Revocation of Permit.

6. According to 40 CFR 433.12 Metal Finishers, in lieu of requiring monitoring for TTO, the permitting authority may allow discharges to make the following certification statement: *“Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing of the last discharge monitoring report. I further certify that this facility is*

implementing the toxic organic management plan (TOMP) submitted to the control authority."

For direct dischargers, this statement is to be included as a "comment" on the Discharge Monitoring Report required by 40 CFR 122.44(i). If monitoring is necessary to measure compliance with the TTO standard, the industrial discharger need analyze for only those pollutants which would reasonably be expected to be present.

The permittee, in lieu of required monitoring of TTO's, may certify that toxic organics are not used or are controlled by Toxic Organic Management Plan (TOMP). A certification statement must be submitted with each quarterly report.

8. "The permittee shall give notice to the Scranton Sewer Authority **immediately** of any changes at its facility causing it to no longer meet conditions of 40 CFR 403.12, which states " Periodic reports on continued compliance. (1) Any Industrial User subject to a categorical Pretreatment Standard (except a Non-Significant Categorical User as defined in §403.3(v)(2)), after the compliance date of such Pretreatment Standard, or, in the case of a New Source, after commencement of the discharge into the POTW, shall submit to the Control Authority during the months of June and December, unless required more frequently in the Pretreatment Standard or by the Control Authority or the Approval Authority, a report indicating the nature and concentration of pollutants in the effluent which are limited by such categorical Pretreatment Standards. In addition, this report shall include a record of measured or estimated average and maximum daily flows for the reporting period for the Discharge reported in paragraph (b)(4) of this section except that the Control Authority may require more detailed reporting of flows. In cases where the Pretreatment Standard requires compliance with a Best Management Practice (or pollution prevention alternative), the User shall submit documentation required by the Control Authority or the Pretreatment Standard necessary to determine the compliance status of the User. At the discretion of the Control Authority and in consideration of such factors as local high or low flow rates, holidays, budget cycles, etc., the Control Authority may modify the months during which the above reports are to be submitted.
9. *Notification of changed Discharge.* All permittees shall promptly notify the Scranton Sewer Authority in advance of any substantial change in the volume or character of pollutants in their Discharge, including the listed or characteristic hazardous wastes for which the Industrial User has submitted initial notification under 40 CFR 403.12.
10. *Permit Transfer.* Wastewater Contribution Permits are issued to a specific Significant Industrial User for a specific operation. A Wastewater Contribution Permit shall not be reassigned or transferred or sold to a new owner, new Industrial User, different premises, or a new or changed operation without the

approval of the Control Authority. Any succeeding Owner or Industrial User shall also comply with the terms and conditions of the existing permit.


Limitation on Permit Transfer: Permits may be reassigned or transferred to a new owner and/or operator with prior approval from the Scranton Sewer Authority.

The permittee MUST give at least (30) thirty days advance notice to the Scranton Sewer Authority. The notice MUST include a written certification by the new owner which:

- a) States that the new owner has no immediate intent to change the facility's operations and processes.
- b) Identifies the specific date on which the transfer is to occur
- c) Acknowledges full responsibility for complying with the existing Permit.

Thank you for your attention to these reporting requirements and permit-related reminders. Please find attached a copy of the Total Toxic Organics (TTO) Parameter List. Finally, you may contact the Pretreatment Coordinator with any questions, comments, or concerns at 570.348.5337.

Thank You,



Eugene Barrett,
Executive Director

CC: Christine Wesolowski, WWTP Manager, christinew@ssauth.org
Tara Roche, MIPP Compliance, troche@ssauth.org
Kent Mackaliunas, MIPP, kentm@ssauth.org

TABLE II

TOTAL TOXIC ORGANICS (TTO) PARAMETER LIST

<u>Parameter</u>	<u>EPA Method No.</u>	<u>Recommended</u> <u>Quantitation</u>	<u>Parameter</u>	<u>EPA Method No.</u>	<u>Recommended</u> <u>Quantitation</u>
<u>BASE/NEUTRAL COMPOUNDS (625)</u>		<u>Level(ug/l)</u>	<u>ACID COMPOUNDS (625)</u>		<u>Level(ug/l)</u>
Acenaphthene		9.5	2-Chlorophenol		20
Acenaphthylene		10	4-Chloro-3-methyl-phenol(P-Chloro M-Cresol)		15
Anthracene		10	4,6-Dinitro-O-Cresol		60
Benzidine		50	2,4-Dichlorophenol		10
Benzo (a) Anthracene		10	2,4-Dinitrophenol		40
Benzo (a) Pyrene		20	2,4-Dimethylphenol		13.5
Benzo (b) fluoranthene		10	2-Nitrophenol		18
Benzo (ghi) Perylene		20	4-Nitrophenol		12
Benzo (k) Fluoranthene		20	Pentachlorophenol		30
Bis (2-Chloroethoxy) Methane		26.5	Phenol		10
Bis (2-Chloroethyl) Ether		10	2,4,6-Trichlorophenol		20
Bis (2-Chloroisopropyl) Ether		10			
Bis (2-Ethylhexyl) Phthalate		30			
4-Bromophenyl Phenyl Ether		9.5			
Butyl Benzyl Phthalate		20			
2-Chloronaphthalene		9.5			
4-Chlorophenyl Phenyl Ether		21			
Chrysene		20			
Dibenzo (a,h) Anthracene		20			
1,2-Dichlorobenzene		9			
1,3-Dichlorobenzene		9			
1,4-Dichlorobenzene		20			
3,3'-Dichlorobenzidine		60			
Diethyl Phthalate		10			
Dimethyl Phthalate		10			
Di-N-Butyl Phthalate		20			
2,4-Dinitrotoluene		10			
2,6-Dinitrotoluene		9.5			
Di-n-Octyl Phthalate		12.5			
1,2-Diphenylhydrazine (as Azobenzene)		N/A			
Fluoranthene		10			
Fluorene		10			
Hexachlorobenzene		10			
Hexachlorobutadiene		10			
Hexachlorocyclopentadiene		10			
Hexachloroethane		10			
Indeno (1,2,3-cd) Pyrene		20			
Isophorone		10			
Naphthalene		8			
Nitrobenzene		10			
N-Nitrosodimethylamine		20			
N-Nitrosodi-N-Propylamine		N/A			
N-Nitrosodiphenylamine		20			
Phenanthrene		10			
Pyrene		20			
1,2,4-Trichlorobenzene		10			

MAY 2010-STREAMLINING

<u>Parameter</u>	<u>EPA Method No.</u>	<u>Recommended Quantitation Level(ug/l)</u>	<u>Parameter</u>	<u>EPA Method No.</u>	<u>Recommended Quantitation Level(ug/l)</u>
<u>VOLATILE COMPOUNDS</u>	<u>624</u>		<u>PESTICIDES & PCBs</u>	<u>608</u>	
Acrolein		50	Aldrin		0.04
Acrylonitrile		50	Alpha-BHC		0.02
Benzene		7	Beta-BHC		0.04
Bromoform		8	Delta-BHC		0.02
Carbon Tetrachloride		6	Gamma-BHC (Lindane)		0.03
Chlorobenzene		6	Chlordane		0.2
Chlorodibromomethane (Dibromochloromethane)		6	4,4'-DDT		0.06
Chloroethane		N/A	4,4'-DDE		0.04
2-Chloroethylvinyl Ether		N/A	4,4'-DDD		0.04
Chloroform		5	Dieldrin		0.03
Dichlorobromomethane (Bromodichloromethane)		5	Endosulfan, Total		N/A
1,1-Dichloroethane		23.5	Alpha-Endosulfan		0.02
1,2-Dichloroethane		3	Beta-Endosulfan		0.04
1,1-Dichloroethene (1,1-Dichloroethylene)		6	Endosulfan Sulfate		0.08
1,2-Dichloropropane		30	Endrin		0.04
cis-1,3-Dichloropropene		5	Endrin Aldehyde		0.1
trans-1,3-Dichloropropene		7	Heptachlor		0.02
Ethylbenzene		6	Heptachlor Epoxide		0.4
Bromomethane (Methyl Bromide)		9	PCB-1016		N/A
Chloromethane (Methyl Chloride)		10	PCB-1242		N/A
Methylene Chloride (Dichloromethane)		6	PCB-1254		N/A
1,1,2,2-Tetrachloroethane		10	PCB-1221		N/A
Tetrachloroethylene		9	PCB-1232		N/A
Toluene		6	PCB-1248		N/A
1,2-Trans-Dichloroethylene		4	PCB-1260		N/A
1,1,1-Trichloroethane		6	PCB, Total		0.5
1,1,2-Trichloroethane		6	Toxaphene		1
Trichloroethylene		5			
Vinyl Chloride		10			
bis(chloromethyl) ether		N/A	2,3,7,8-Tetrachlorodibenzo-p-dioxin (1)		0.01
Dichlorodifluoromethane		N/A			
Trichlorofluoromethane		N/A			

Table Notes

(1) Method 625 must be used to screen samples for 2,3,7,8 Tetrachlorodibenzo-p-dioxin. If detected using Method 625, then a conclusive determination of the presence and concentration level must be obtained through the use of Method 613 or other approved test procedure (40 CFR Part 136, Appendix A). If Method 613 is used, the RQL of 0.01 ug/l applies. If not detected using Method 625, report "CODE=E" on the Discharge Monitoring Report and provide an explanation on the DMR or the Transmittal Sheet.

N/A: Recommended Quantitation Level equals five times the method detection level achieved by the laboratory.



October 29, 2014

Mr. Jay Nardone
Scranton Sewer Authority
312 Adams Avenue
Scranton, PA 18503

RE: LEACHATE/TREATMENT PLANT EFFLUENT

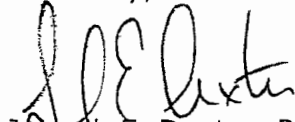
Dear Mr. Barrett:

Attached please find the analysis for the Leachate/Treatment Plant Effluent and the Chain of Custody for the third quarter.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please call.

Sincerely,



Joseph E. Dexter, P.E.
Site Manager



201 West Clay Avenue / Hazle Township, PA 18202

PHONE (570) 455-6011 - FAX (570) 455-6321

www.hawkmtnlabs.com

Report Narrative

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 10/17/2014

Page 1 of 4

HawkMtn WO #: 1408-00144
Subject Line: Quarterly Treatment Plant Effluent, Day 1

Any information provided by client (CLT) has not been performed by HML and is not within the HML NELAP scope of accreditation.

Data Qualifiers:

A = Insufficient sample to run all required quality control

B = Analyte found in the method blank

Analyte has been confirmed by another instrument or method

C = Sample or extract was analyzed at a higher dilution.

E = Analyte exceeds the upper limit of the calibration curve

F = Lab fortified blank had a difference outside the QC limits

G = Failure in the ending calibration check. The average sum for the ending calibration check meets method requirements.

H = Sample run past hold time

I = Initial Calibration Verification was outside QC limits

J = Estimated concentration of an analyte between MDL (LOD) and Reporting Limit (LOQ)

K = Dissolved sample was not run because total was non-detect

L = Sample not received in proper container

M = Matrix spike recovery was outside QC limits

N = Analyte included on HML's NELAP scope of accreditation

Q = Second Source Calibration Verification was outside QC limits

R = Duplicate/Matrix spike duplicate had a relative percent difference outside QC limits

S = Surrogate out of control limits

V = Continuing Calibration Verification was outside QC limits

X = User defined data qualifier

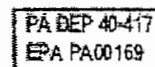
NA = Not Applicable

The test results meet the requirements of the 2009 TNI Standard and the 25 PA Code, Chapter 252, except where noted.

The information contained in this analytical report is the sole property of Hawk MTN Laboratories, Inc.

and that of the client. It cannot be reproduced in any form without the consent of Hawk MTN Labs, Inc. or the client for which this report was issued. The results contained in this report(s) are only representative of the sample(s) received. Conditions are dependant on location and time of the sampling event.

Hawk MTN Laboratories, Inc. is not responsible for use or interpretation of the data included herein.



Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 10/17/2014

Page 2 of 4

Material Tested: Waste Water
Date Sampled: 09/23/2014 Time Sampled: 20:07
Date Received: 09/24/2014
HawkMtn WO #: 1408-00144-001
Sampler: Client
Sample Point ID: Effluent, Day 1

Client Sample ID: Treatment Plant Effluent, Day 1

Test Name	Test Results	Qual	Method	Quant Limit	Tech	Analysis Date/Time
pH, Field	7.4 su		SM 4500-H+B	0	CLT	9/23/14
Color, Platinum-Cobalt	750 Pt-Co unit		SM 2120 B	1.0	JB	9/30/14
Total Suspended Solids	5 mg/l	N	SM 2540 D	5	NAM	9/25/14
Biochemical Oxygen Demand	33.9 mg/l	N	SM 5210 B	6	EM	9/24/14
Cyanide	0.03 mg/l	N	SM 4500-CN E	0.01	APO	9/30/14
Surfactants, MBAS	<0.2 mg/l	N	SM 5540 C	0.2	JO	9/25/14
Ammonia-Nitrogen	0.5 mg/l	N	SM 4500-NH3 F	0.5	APO	9/30/14
Arsenic, Total ICP-MS	0.0951 mg/l	N	EPA 200.8	0.001	RA	9/29/14
Cadmium, Total ICP-MS	<0.001 mg/l	N	EPA 200.8	0.001	RA	9/29/14
Copper, Total ICP-MS	0.0111 mg/l	N	EPA 200.8	0.001	RA	9/29/14
Chromium, Total ICP-MS	0.0335 mg/l	N	EPA 200.8	0.001	RA	9/29/14
Chromium, Hexavalent	<0.25 mg/l	N	SM 3500-Cr B	0.25	JB	9/24/14
Mercury, Total	0.00013 mg/l	N,D,I	EPA 245.7	0.0001	CS	9/25/14
Nickel, Total ICP-MS	0.044 mg/l	N	EPA 200.8	0.001	RA	9/29/14
Lead, Total ICP-MS	<0.001 mg/l	N	EPA 200.8	0.001	RA	9/29/14
Silver, Total ICP-MS	<0.005 mg/l	N	EPA 200.8	0.005	RA	9/29/14
Zinc, Total ICP-MS	0.0194 mg/l	N,R	EPA 200.8	0.005	RA	9/29/14
Total Petroleum Hydrocarbon	<2.0 mg/l	N	EPA 1664	2.0	JB	9/24/14
Oil and Grease	<4.0 mg/l	N	EPA 1664 A	4.0	JB	9/24/14
Acrolein	<0.0500 mg/l	N	SW846-8260	0.0050	JA	9/26/14
Acrylonitrile	<0.0200 mg/l	N,V	SW846-8260	0.0020	JA	9/26/14
Benzene	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Bromodichloromethane	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Bromoform	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
Bromomethane	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Carbon Tetrachloride	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Dibromochloromethane	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
Chlorobenzene	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
Chloroethane	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
2-Chloroethyl Vinyl Ether	<0.0200 mg/l	N	SW846-8260	0.0020	JA	9/26/14
Chloroform	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Chloromethane	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
1,2-Dichlorobenzene	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
1,3-Dichlorobenzene	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
1,4-Dichlorobenzene	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14



201 West Clay Avenue / Hazle Township, PA 18202

PHONE (570) 455-6011 - FAX (570) 455-6321

www.hawkmtlabs.com

Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 10/17/2014

Page 3 of 4

Material Tested: Waste Water
Date Sampled: 09/23/2014 Time Sampled: 20:07
Date Received: 09/24/2014
HawkMtn WO #: 1408-00144-001
Sampler: Client
Sample Point ID: Effluent, Day 1

Client Sample ID: Treatment Plant Effluent, Day 1

Test Name	Test Results	Qual	Method	Quant Limit	Tech	Analysis Date
1,1-Dichloroethane	<0.0100 mg/l	N,V	SW846 8260	0.0010	JA	9/26/14
1,2-Dichloroethane	<0.0100 mg/l	N,V	SW846 8260	0.0010	JA	9/26/14
trans-1,2-Dichloroethane	<0.0100 mg/l	N,V	SW846 8260	0.0010	JA	9/26/14
trans-1,3-Dichloropropene	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
1,1-Dichloroethene	<0.0100 mg/l	N	SW846 8260	0.0010	JA	9/26/14
1,2-Dichloropropane	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
cis-1,3-Dichloropropene	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Ethylbenzene	<0.0100 mg/l	N	SW846 8260	0.0010	JA	9/26/14
Methylene Chloride	<0.0100 mg/l	N,V	SW846 8260	0.0010	JA	9/26/14
Methyl Chloride	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
Methyl Bromide	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
1,1,2,2-Tetrachloroethane	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Tetrachloroethene	<0.0100 mg/l	N	SW846 8260	0.0010	JA	9/26/14
Toluene	<0.0100 mg/l	N	SW846 8260	0.0010	JA	9/26/14
1,1,1-Trichloroethane	<0.0100 mg/l	N,V	SW846 8260	0.0010	JA	9/26/14
1,1,2-Trichloroethane	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
Trichloroethene	<0.0100 mg/l	N	SW846 8260	0.0010	JA	9/26/14
Trichlorofluoromethane	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Vinyl Chloride	<0.0100 mg/l	N	SW846 8260	0.0010	JA	9/26/14
Xylene	<0.0300 mg/l	N	SW846 8260	0.0030	JA	9/26/14
Temp Upon Receipt	6.2 C			0	MG	9/24/14
Transported on loose ice	YES			0	MG	9/24/14

VOC Analysis: Acrylonitrile and Tetrachloroethene area counts fail high in the Continuing Calibration

Verification (CCV) at 5.0. Trichlorofluoromethane area counts fail high in the CCV at 40.0. 1st and 2nd

surrogates fail high in the ending CCV at 10.0.

CLT = Client

MBAS, calculated as LAS, molecular weight 60.

PA DEP 40-417
EPA PA00169



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Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 10/17/2014

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Material Tested:	Waste Water	HawkMtn WO #:	1408-00144-001
Date Sampled:	09/23/2014	Time Sampled:	20:07
Date Received:	09/24/2014	Sampler:	Client
		Sample Point ID:	Effluent, Day 1

Client Sample ID: Treatment Plant Effluent, Day 1

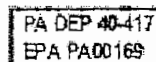
<u>Test Name</u>	<u>Test Results</u>	<u>Qual</u>	<u>Method</u>	<u>Quant</u> <u>Limit</u>	<u>Tech</u>	<u>Analysis Date</u>
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These results relate only to the sample noted above.

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Ronald Andrae, Technical Director

Andrea Mengel, Quality Director



Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

HAWKMTN LAB INC.
201 W. Clay Ave., Hazle Township, PA 18202
Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples intact?	Y	N
Transported on ice?	Y	N
COC intact and complete?	Y	N
Correct containers?	Y	N
Adequate samples?	Y	N
Volatiles: headspace present?	Y	N
Completed by:	[Signature]	
Samples/COC/Analysis agree?	Y	N

Subject Line: Quarterly Treatment Plant Effluent, Day 1
Work Order #: 1408-00144 Sample ID: Effluent, Day 1
Sample 001: Treatment Plant Effluent, Day 1

Matrix: Waste Water

	WA-FPH	su	C	Tech	Bottles:	pH	CI	Tech
pH, Field		7.4			<input checked="" type="checkbox"/> 2 Glass, 1 Liter H2SO4	NA	NA	amb
Temp Upon Receipt	QC-TEMPREC				<input checked="" type="checkbox"/> 1 Plastic, 500 ml NaOH Pellets + 1g Ascorbic Acid	12.7		
Transported on loose ice	QC-ICE				<input checked="" type="checkbox"/> 1 plastic half gallon Unpreserved	NA		
Temp Upon Receipt	QC-TEMPREC	6.2			<input checked="" type="checkbox"/> Plastic, 250ml HNO3	5.2		
Transported on loose ice	QC-ICE	yes			<input checked="" type="checkbox"/> Plastic, 500 ml H2SO4	5.2		
pH meter ID	QC-PHMETER	N/A			<input checked="" type="checkbox"/> TSS Plastic, 1 Liter Unpreserved	NA	NA	
					<input checked="" type="checkbox"/> 3 Vials, 40ml HCL + 2 trip blanks			
					<input checked="" type="checkbox"/> 3 Vials, 40 ml Unpreserved + 2 trip blanks			

Printed By: [Signature]

Printed On: 7/9/2014

Approved By: [Signature]

Sampling Comments:

Bottles Made By: [Signature] Bottles Checked By: [Signature] Composite Sample: Start Time/Date: 8am 9/23/14 End Time/Date: 8am 9/23/14

NOTES:

APPROVED
By Lab Manager at 10:12 am, Sep 25, 2014

Sampled By: [Signature]

Relinquished By: [Signature]

Received By: [Signature]

Relinquished By: [Signature]

Received at Lab By: [Signature]

Logged In By: [Signature]

Date:

Time:

9/23/14

8:07pm

9/24/14

10:25

9-24-14

10:25

9-24-14

12:05

9/24/14

1456



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Report Narrative

Customer: Keystone Landfill, Inc.
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Dunmore, PA 18512

Report Date: 10/17/2014

Page 1 of 4

HawkMtn WO #: 1408-00145
Subject Line: Quarterly Treatment Plant Effluent, Day 2

Any information provided by client (CLT) has not been performed by HML and is not within the HML NELAP scope of accreditation.

Data Qualifiers:

A = Insufficient sample to run all required quality control

B = Analyte found in the method blank

C = Analyte has been confirmed by another instrument or method

D = Sample or extract was analyzed at a higher dilution

E = Analyte exceeds the upper limit of the calibration curve

F = Lab fortified blank had a difference outside the QC limits

G = Failure in the ending calibration check. The average sum for the ending calibration check meets method requirements.

H = Sample run past hold time

I = Initial Calibration Verification was outside QC limits

J = Estimated concentration of an analyte between MDL (LOD) and Reporting Limit (LOQ)

K = Dissolved sample was not run because total was non-detect

L = Sample not received in proper container

M = Matrix spike recovery was outside QC limits

N = Analyte included on HML's NELAP scope of accreditation

Q = Second Source Calibration Verification was outside QC limits

R = Duplicate/Matrix spike duplicate had a relative percent difference outside QC limits

S = Surrogate out of control limits

V = Continuing Calibration Verification was outside QC limits

X = User defined data qualifier

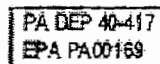
NA = Not Applicable

The test results meet the requirements of the 2009 TNI Standard and the 25 PA Code, Chapter 252, except where noted.

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Certificate of Analysis

Customer: Keystone Landfill, Inc.
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Dunmore, PA 18512

Report Date: 10/17/2014

Page 2 of 4

Material Tested: Waste Water HawkMtn WO #: 1408-00145-001
Date Sampled: 09/24/2014 Time Sampled: 9:00 Sampler: Client
Date Received: 09/24/2014 Sample Point ID: Effluent, Day 2

Client Sample ID: Treatment Plant Effluent, Day 2

Test Name	Test Results	Qual	Method	Quant	Tech	Analysis Date/Time
				Limit		
pH, Field	7.0 su		SM 4500-H+B	0	CLT	9/24/14
Color, Platinum-Cobalt	750 Pt-Co unit		SM 2120 B	1.0	JB	9/30/14
Total Suspended Solids	<5 mg/l	N	SM 2540 D	5	NAM	9/25/14
Biochemical Oxygen Demand	34.0 mg/l	N	SM 5210 B	6	EM	9/24/14
Cyanide	0.02 mg/l	N	SM 4500-CN E	0.01	APO	9/30/14
Surfactants, MBAS	0.338 mg/l	N,R,M	SM 5540 C	0.2	JO	9/25/14
Ammonia-Nitrogen	1.0 mg/l	N	SM 4500-NH3 F	0.5	APO	9/30/14
Arsenic, Total ICP-MS	0.0985 mg/l	N	EPA 200.8	0.001	RA	9/29/14
Cadmium, Total ICP-MS	<0.001 mg/l	N	EPA 200.8	0.001	RA	9/29/14
Copper, Total ICP-MS	0.0126 mg/l	N	EPA 200.8	0.001	RA	9/29/14
Chromium, Total ICP-MS	0.0346 mg/l	N	EPA 200.8	0.001	RA	9/29/14
Chromium, Hexavalent	<0.25 mg/l	N	SM 3500-Cr B	0.25	JB	9/24/14
Mercury, Total	<0.0001 mg/l	N,D,I	EPA 245.7	0.0001	CS	9/25/14
Nickel, Total ICP-MS	0.0456 mg/l	N	EPA 200.8	0.001	RA	9/29/14
Lead, Total ICP-MS	<0.001 mg/l	N	EPA 200.8	0.001	RA	9/29/14
Silver, Total ICP-MS	<0.005 mg/l	N	EPA 200.8	0.005	RA	9/29/14
Zinc, Total ICP-MS	0.0166 mg/l	N	EPA 200.8	0.005	RA	9/29/14
Total Petroleum Hydrocarbon	<2.0 mg/l	N	EPA 1664	2.0	JB	9/24/14
Oil and Grease	<4.0 mg/l	N	EPA 1664 A	4.0	JB	9/24/14
Acrolein	<0.0500 mg/l	N	SW846-8260	0.0050	JA	9/26/14
Acrylonitrile	<0.0200 mg/l	N,V	SW846-8260	0.0020	JA	9/26/14
Benzene	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Bromodichloromethane	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Bromoform	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
Bromomethane	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Carbon Tetrachloride	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Dibromochloromethane	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
Chlorobenzene	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
Chloroethane	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
2-Chloroethyl Vinyl Ether	<0.0200 mg/l	N	SW846-8260	0.0020	JA	9/26/14
Chloroform	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Chloromethane	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
1,2-Dichlorobenzene	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
1,3-Dichlorobenzene	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
1,4-Dichlorobenzene	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14

PA DEP 40-417
EPA PA00169



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Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 10/17/2014

Page 3 of 4

Material Tested: Waste Water HawkMtn WO #: 1408-00145-001
Date Sampled: 09/24/2014 Time Sampled: 9:00 Sampler: Client
Date Received: 09/24/2014 Sample Point ID: Effluent, Day 2

Client Sample ID: Treatment Plant Effluent, Day 2

Test Name	Test Results	Qual	Method	Quant	Tech	Analysis Date
				Limit		
1,1-Dichloroethane	<0.0100 mg/l	N,V	SW846 8260	0.0010	JA	9/26/14
1,2-Dichloroethane	<0.0100 mg/l	N,V	SW846 8260	0.0010	JA	9/26/14
trans-1,2-Dichloroethene	<0.0100 mg/l	N,V	SW846 8260	0.0010	JA	9/26/14
trans-1,3-Dichloropropene	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
1,1-Dichloroethene	<0.0100 mg/l	N	SW846 8260	0.0010	JA	9/26/14
1,2-Dichloropropane	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
cis-1,3-Dichloropropene	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Ethylbenzene	<0.0100 mg/l	N	SW846 8260	0.0010	JA	9/26/14
Methylene Chloride	<0.0100 mg/l	N,V	SW846 8260	0.0010	JA	9/26/14
Methyl Chloride	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Methyl Bromide	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
1,1,2,2-Tetrachloroethane	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Tetrachloroethene	<0.0100 mg/l	N	SW846 8260	0.0010	JA	9/26/14
Toluene	<0.0100 mg/l	N	SW846 8260	0.0010	JA	9/26/14
1,1,1-Trichloroethane	<0.0100 mg/l	N,V	SW846 8260	0.0010	JA	9/26/14
1,1,2-Trichloroethane	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
Trichloroethene	<0.0100 mg/l	N	SW846 8260	0.0010	JA	9/26/14
Trichlorofluoromethane	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Vinyl Chloride	<0.0100 mg/l	N	SW846 8260	0.0010	JA	9/26/14
Xylene	<0.0300 mg/l	N	SW846 8260	0.0030	JA	9/26/14
Temp Upon Receipt	5.8 C			0	MG	9/24/14
Transported on loose ice	YES			0	MG	9/24/14

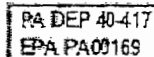
VOC Analysis: Acrylonitrile and Tetrachloroethene area counts fail high in the Continuing Calibration

Verification (CCV) at 5.0. Trichlorofluoromethane area counts fail high in the CCV at 40.0. 1st and 2nd

surrogates fail high in the ending CCV at 10.0.

CLT = Client

MBAS, calculated as LAS, molecular weight 60.





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Certificate of Analysis

Customer: Keystone Landfill, Inc.
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Dunmore, PA 18512

Report Date: 10/17/2014

Page 4 of 4

Material Tested:	Waste Water	HawkMtn WO #:	1408-00145-001
Date Sampled:	09/24/2014	Time Sampled:	9:00
Date Received:	09/24/2014	Sampler:	Client
		Sample Point ID:	Effluent, Day 2

Client Sample ID: Treatment Plant Effluent, Day 2

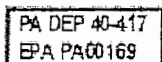
<u>Test Name</u>	<u>Test Results</u>	<u>Qual</u>	<u>Method</u>	<u>Quant</u>	<u>Limit</u>	<u>Tech</u>	<u>Analysis Date</u>
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These results relate only to the sample noted above.

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Ronald Andrae, Technical Director

Andrea Mengel, Quality Director



Customer: Keystone Landfill, Inc.
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Dunmore, PA 18512

HAWKMTN LAB, INC.
201 W. Clay Ave., Hazle Township, PA 18202
Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples Intact?	Y
Transported on ice?	Y
COC intact and complete?	Y
Correct containers?	Y
Adequate samples?	Y
Volatiles: headspace present?	Y
Completed by:	mmg
Samples/COC/Analysis agree?	Y

Subject Line: Quarterly Treatment Plant Effluent, Day 2
Work Order #: 1408-00145 Sample ID: Effluent, Day 2
Sample 001: Treatment Plant Effluent, Day 2

Matrix: Waste Water

pH, Field	WA-FPH	7.0	su	Test	Bottles:	pH	Cl	Tech
Temp Upon Receipt	QC-TEMPREC				<input checked="" type="checkbox"/> 2 Glass, 1 Liter H2SO4	MA	MA	mmg
Transported on loose ice	QC-ICE				<input checked="" type="checkbox"/> 1 Plastic, 500 ml NaOH Pellets +1g Ascorbic Acid	MA		
Temp Upon Receipt	QC-TEMPREC	5.8	C		<input checked="" type="checkbox"/> 1 plastic half gallon Unpreserved	MA		
Transported on loose ice	QC-ICE	Yes			<input checked="" type="checkbox"/> Plastic, 250ml HNO3	22		
pH meter ID	QC-PHMETER	MA			<input checked="" type="checkbox"/> Plastic, 500 ml H2SO4	22		
					<input checked="" type="checkbox"/> TSS Plastic, 1 Liter Unpreserved	MA		
					<input checked="" type="checkbox"/> 3 Vials, 40ml HCL + 2 trip blanks			
					<input checked="" type="checkbox"/> 3 Vials, 40 ml Unpreserved + 2 trip blanks			

But already

Printed By: mmg

Printed On: 7/9/2014

Approved By: mmg

Sampling Comments:

Bottles Made By: 90 Bottles Checked By: mmg Composite Sample: Start Time/Date: 8:09 am 9/23/14 End Time/Date: 8:09 am 9/24/14

NOTES:

APPROVED
By Unit Manager at 10:17 am, Sep 25, 2014

Sampled By:

Relinquished By:

Received By:

Relinquished By:

Received at Lab By:

Logged In By:

Date:

Time:

9/24/14	9:00am
9/24/14	10:25
9-24-14	10:25
9-24-14	12:05
9/24/14	1503



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Report Narrative

Customer: Keystone Landfill, Inc.
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Report Date: 10/17/2014

Page 1 of 4

HawkMtn WO #: 1408-00146
Subject Line: Quarterly Treatment Plant Effluent, Day 3

Any information provided by client (CLT) has not been performed by HML and is not within the HML NELAP scope of accreditation.

Data Qualifiers:

- A = Insufficient sample to run all required quality control
- = Analyte found in the method blank
- Analyte has been confirmed by another instrument or method
- D = Sample or extract was analyzed at a higher dilution.
- E = Analyte exceeds the upper limit of the calibration curve
- F = Lab fortified blank had a difference outside the QC limits
- G = Failure in the ending calibration check. The average sum for the ending calibration check meets method requirements.
- H = Sample run past hold time
- I = Initial Calibration Verification was outside QC limits
- J = Estimated concentration of an analyte between MDL (LOD) and Reporting Limit (LOQ)
- K = Dissolved sample was not run because total was non-detect
- L = Sample not received in proper container
- M = Matrix spike recovery was outside QC limits
- N = Analyte included on HML's NELAP scope of accreditation
- Q = Second Source Calibration Verification was outside QC limits
- R = Duplicate/Matrix spike duplicate had a relative percent difference outside QC limits
- S = Surrogate out of control limits
- V = Continuing Calibration Verification was outside QC limits
- X = User defined data qualifier
- NA = Not Applicable

The test results meet the requirements of the 2009 TNI Standard and the 25 PA Code, Chapter 252, except where noted.

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Customer: Keystone Landfill, Inc.
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Report Date: 10/17/2014

Page 2 of 4

Material Tested: Waste Water HawkMtn WO #: 1408-00146-001
Date Sampled: 09/25/2014 Time Sampled: 10:00 Sampler: CLIENT
Date Received: 09/25/2014 Sample Point ID: Effluent, Day 3

Client Sample ID: Treatment Plant Effluent, Day 3

Test Name	Test Results	Qual	Method	Quant Limit	Tech	Analysis Date/Time
pH, Field	6.9 su		SM 4500-H+B	0	CLT	9/25/14
Color, Platinum-Cobalt	500 Pt-Co unit		SM 2120 B	1.0	JB	9/30/14
Total Suspended Solids	<5 mg/l	N	SM 2540 D	5	NAM	9/26/14
Biochemical Oxygen Demand	27.8 mg/l	N	SM 5210 B	6	EM	9/25/14
Cyanide	0.02 mg/l	N	SM 4500-CN E	0.01	APO	9/30/14
Surfactants, MBAS	<0.2 mg/l	N	SM 5540 C	2	JO	9/26/14
Ammonia-Nitrogen	0.6 mg/l	N	SM 4500-NH3 F	0.5	APO	9/30/14
Arsenic, Total ICP-MS	0.0632 mg/l	N	EPA 200.8	0.001	RA	10/6/14
Cadmium, Total ICP-MS	<0.001 mg/l	N	EPA 200.8	0.001	RA	10/6/14
Copper, Total ICP-MS	0.0126 mg/l	N	EPA 200.8	0.001	RA	10/6/14
Chromium, Total ICP-MS	0.0189 mg/l	N	EPA 200.8	0.001	RA	10/6/14
Chromium, Hexavalent	<0.25 mg/l	N	SM 3500-Cr B	0.25	JB	9/25/14
Mercury, Total	<0.0001 mg/l	N,D,J	EPA 245.7	0.0001	CS	10/2/14
Nickel, Total ICP-MS	0.0308 mg/l	N	EPA 200.8	0.001	RA	10/6/14
Lead, Total ICP-MS	<0.001 mg/l	N	EPA 200.8	0.001	RA	10/6/14
Silver, Total ICP-MS	<0.005 mg/l	N	EPA 200.8	0.005	RA	10/6/14
Zinc, Total ICP-MS	0.0373 mg/l	N	EPA 200.8	0.005	RA	10/6/14
Total Petroleum Hydrocarbon	<2.0 mg/l	N	EPA 1664	2.0	JB	10/2/14
Oil and Grease	<4.0 mg/l	N	EPA 1664 A	4.0	JB	9/26/14
Acrolein	<0.0500 mg/l	N	SW846-8260	0.0050	JA	9/26/14
Acrylonitrile	<0.0200 mg/l	N,V	SW846-8260	0.0020	JA	9/26/14
Benzene	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Bromodichloromethane	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Bromoform	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
Bromomethane	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Carbon Tetrachloride	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Dibromochloromethane	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
Chlorobenzene	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
Chloroethane	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
2-Chloroethyl Vinyl Ether	<0.0200 mg/l	N	SW846-8260	0.0020	JA	9/26/14
Chloroform	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Chloromethane	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
1,2-Dichlorobenzene	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
1,3-Dichlorobenzene	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
1,4-Dichlorobenzene	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14

PA DEP 40-417
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Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 10/17/2014

Page 3 of 4

Material Tested: Waste Water HawkMtn WO #: 1408-00146-001
Date Sampled: 09/25/2014 Time Sampled: 10:00 Sampler: CLIENT
Date Received: 09/25/2014 Sample Point ID: Effluent, Day 3

Client Sample ID: Treatment Plant Effluent, Day 3

<u>Test Name</u>	<u>Test Results</u>	<u>Qual</u>	<u>Method</u>	<u>Quant</u> <u>Limit</u>	<u>Tech</u>	<u>Analysis Date</u>
1,1-Dichloroethane	<0.0100 mg/l	N,V	SW846 8260	0.0010	JA	9/26/14
1,2-Dichloroethane	<0.0100 mg/l	N,V	SW846 8260	0.0010	JA	9/26/14
trans-1,2-Dichloroethene	<0.0100 mg/l	N,V	SW846 8260	0.0010	JA	9/26/14
trans-1,3-Dichloropropene	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
1,1-Dichloroethene	<0.0100 mg/l	N	SW846 8260	0.0010	JA	9/26/14
1,2-Dichloropropane	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
cis-1,3-Dichloropropene	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Ethylbenzene	<0.0100 mg/l	N	SW846 8260	0.0010	JA	9/26/14
Methylene Chloride	<0.0100 mg/l	N,V	SW846 8260	0.0010	JA	9/26/14
Methyl Chloride	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Methyl Bromide	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
1,1,2,2-Tetrachloroethane	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Tetrachloroethene	<0.0100 mg/l	N	SW846 8260	0.0010	JA	9/26/14
Toluene	<0.0100 mg/l	N	SW846 8260	0.0010	JA	9/26/14
1,1,1-Trichloroethane	<0.0100 mg/l	N,V	SW846 8260	0.0010	JA	9/26/14
1,1,2-Trichloroethane	<0.0100 mg/l	N	SW846-8260	0.0010	JA	9/26/14
Trichloroethene	<0.0100 mg/l	N	SW846 8260	0.0010	JA	9/26/14
Trichlorofluoromethane	<0.0100 mg/l	N,V	SW846-8260	0.0010	JA	9/26/14
Vinyl Chloride	<0.0100 mg/l	N	SW846 8260	0.0010	JA	9/26/14
Xylene	<0.0300 mg/l	N	SW846 8260	0.0030	JA	9/26/14
Temp Upon Receipt	4.2 C			0	DH	9/25/14
Transported on loose ice	YES			0	DH	9/25/14

VOC Analysis: Acrylonitrile and Tetrachloroethene area counts fail high in the Continuing Calibration

Verification (CCV) at 5.0. Trichlorofluoromethane area counts fail high in the CCV at 40.0. 1st and 2nd

surrogates fail high in the ending CCV at 10.0.

CLT = Client

MBAS, calculated as LAS, molecular weight 60.

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Certificate of Analysis

Customer: Keystone Landfill, Inc.
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Dunmore, PA 18512

Report Date: 10/17/2014

Page 4 of 4

Material Tested:	Waste Water	HawkMtn WO #:	1408-00146-001
Date Sampled:	09/25/2014	Time Sampled:	10:00
Date Received:	09/25/2014	Sampler:	CLIENT
		Sample Point ID:	Effluent, Day 3

Client Sample ID: Treatment Plant Effluent, Day 3

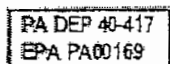
<u>Test Name</u>	<u>Test Results</u>	<u>Qual</u>	<u>Method</u>	<u>Quant</u>	<u>Limit</u>	<u>Tech</u>	<u>Analysis Date</u>
------------------	---------------------	-------------	---------------	--------------	--------------	-------------	----------------------

These results relate only to the sample noted above.

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Ronald Andrae, Technical Director

Andrea Mengel, Quality Director



Customer: Keystone Landfill, Inc.
249 Dunham Drive
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HAWKMTN LABS, INC.
201 W. Clay Ave., Hazle Township, PA 18202
Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples intact?	Y
Transported on ice?	Y
COC intact and complete?	Y
Correct containers?	Y
Adequate samples?	Y
Volatiles: headspace present?	Y
Completed by:	DA
Samples/COC/Analysis agree?	Y

Subject Line: Quarterly Treatment Plant Effluent, Day 3
Work Order #: 1408-00146 Sample ID: Effluent, Day 3
Sample 001: Treatment Plant Effluent, Day 3

Matrix: Waste Water

pH, Field	WA-FPH	6.9	SU
Temp Upon Receipt	QC-TEMPREC	4.2	C
Transported on loose ice	QC-ICE	Yes	
Temp Upon Receipt	QC-TEMPREC		C
Transported on loose ice	QC-ICE		
pH meter ID	QC-PHMETER	Client	

Tech	Bottles:	pH	Cl	Tech
DA	<input checked="" type="checkbox"/> 2 Glass, 1 Liter H2SO4			DA
DA	<input checked="" type="checkbox"/> 1 Plastic, 500 ml NaOH Pellets +1g Ascorbic Acid	5.2	0	DA
DA	<input checked="" type="checkbox"/> 1 plastic half gallon Unpreserved Liter			DA
DA	<input checked="" type="checkbox"/> Plastic, 250ml HNO3	2.2		DA
DA	<input checked="" type="checkbox"/> Plastic, 500 ml H2SO4	2.2	0	DA
DA	<input checked="" type="checkbox"/> TSS Plastic, 1 Liter Unpreserved			DA
DA	<input checked="" type="checkbox"/> 3 Vials, 40ml HCL + 2 trip blanks			DA
DA	<input checked="" type="checkbox"/> 3 Vials, 40 ml Unpreserved + 2 trip blanks			DA

Printed By: DA

Printed On: 7/9/2014

Approved By: MMC

Sampling Comments:

Bottles Made By: 10

Bottles Checked By: DA

Composite Sample: Start Time/Date: 8:10am 9/25/14

End Time/Date: 8:10 9/25/14

NOTES:

Sampled By: [Signature]

Relinquished By: [Signature]

Received By: [Signature]

Relinquished By: [Signature]

Received at Lab By: [Signature]

Logged in By: [Signature]

Date:	Time:
9/25/14	10am
9/25/14	10:30am
9/25/14	10:30
9/25/14	12:05
9-25-14	13:00
9/25/14	1528



October 15, 2015

Scranton Sewer Authority
c/o Christine Wesolowski, WWTP Manager
312 Adams Avenue
Scranton, PA 18503

RE: LEACHATE/TREATMENT PLANT EFFLUENT

Dear MS. Wesolowski:

Attached please find the analysis for the Leachate/Treatment Plant Effluent and the Chain of Custody for the third quarter.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please call.

Sincerely,

A handwritten signature in black ink, appearing to read 'J. E. Dexter', is written over the printed name.

Joseph E. Dexter, P.E.
Site Manager



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Report Narrative

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 10/14/2015

Page 1 of 5

HawkMtn WO #: 1508-00166
Subject Line: Quarterly Treatment Plant Effluent, Day 1

Any information provided by client (CLT) has not been performed by HML and is not within the HML scope of accreditation.

All solid samples are reported on an "as received" basis unless otherwise noted.

The test results meet the requirements of 25 PA Code and Chapter 252, except where noted.

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PA DEP 40-417
EPA PA00169



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Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 10/14/2015

Page 2 of 5

Material Tested: Non Potable Water
Date Sampled: 09/22/2015 Time Sampled: 8:00
Date Received: 09/22/2015

HawkMtn WO #: 1508-00166-001
Sampler: CLIENT
Sample Point ID: Effluent, Day 1

Client Sample ID: Treatment Plant Effluent, Day 1

<u>Test Name</u>	<u>Test Results</u>	<u>Qual</u>	<u>Method</u>	<u>Quant Limit</u>	<u>Tech</u>	<u>Analysis Date / Time</u>	
pH, Field	6.1 su	N	SM 4500-H+B	0	Client	9/22/15	8:00
Color, Platinum-Cobalt	460 Pt-Co unit	N	SM 2120 B	1.0	JB	9/29/15	9:52
Total Suspended Solids	7.0 mg/l		SM 2540 D	5	NAM	9/23/15	9:29
Biochemical Oxygen Demand	11 mg/l		SM 5210 B	6	EM	9/23/15	16:10
anide	<0.01 mg/l		SM 4500-CN-E	0.01	APO	10/1/15	9:13
Surfactants, MBAS	<0.2 mg/l		SM 5540 C	0.2	JO	9/23/15	9:00
Ammonia-Nitrogen	17 mg/l		SM 4500-NH3 F	0.2	APO	9/23/15	17:01
Arsenic, Total ICP-MS	0.034 mg/l		EPA 200.8	0.001	EW	9/29/15	14:05
Cadmium, Total ICP-MS	<0.001 mg/l		EPA 200.8	0.001	EW	9/29/15	14:05
Copper, Total ICP-MS	0.0044 mg/l		EPA 200.8	0.001	EW	9/29/15	14:05
Chromium, Total ICP-MS	0.023 mg/l		EPA 200.8	0.001	EW	9/29/15	14:05
Chromium, Hexavalent	<0.25 mg/l	M3	SM 3500-Cr B	0.25	JB	9/22/15	16:21
Mercury, Total	<0.0005 mg/l		EPA 245.7	0.0005	CS	9/29/15	16:33
Nickel, Total ICP-MS	0.023 mg/l		EPA 200.8	0.001	EW	9/29/15	14:05
Lead, Total ICP-MS	<0.001 mg/l		EPA 200.8	0.001	EW	9/29/15	14:05
Silver, Total ICP-MS	<0.005 mg/l		EPA 200.8	0.005	EW	9/29/15	14:05
Zinc, Total ICP-MS	0.037 mg/l		EPA 200.8	0.005	EW	9/29/15	14:05
Total Petroleum Hydrocarbon	<4.0 mg/l		EPA 1664	4.0	JO	10/9/15	15:58
Oil and Grease	<4.0 mg/l		EPA 1664 A	4.0	JO	9/28/15	10:30
Acrolein	<0.050 mg/l		SW846-8260	0.0050	JA	9/24/15	16:14
Acrylonitrile	<0.020 mg/l		SW846-8260	0.0020	JA	9/24/15	16:14
benzene	<0.010 mg/l		SW846 8260	0.0010	JA	9/24/15	16:14

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Certificate of Analysis

Customer: Keystone Landfill, Inc.
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Dunmore, PA 18512

Report Date: 10/14/2015

Page 3 of 5

Material Tested: Non Potable Water

Date Sampled: 09/22/2015

Time Sampled: 8:00

Date Received: 09/22/2015

HawkMtn WO #: 1508-00166-001

Sampler: CLIENT

Sample Point ID: Effluent, Day 1

Client Sample ID: Treatment Plant Effluent, Day 1

<u>Test Name</u>	<u>Test Results</u>	<u>Qual</u>	<u>Method</u>	<u>Quant Limit</u>	<u>Tech</u>	<u>Analysis Date / Time</u>	
Bromodichloromethane	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	16:14
Bromoform	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	16:14
Bromomethane	<0.010 mg/l		SW846-8260		JA	10/7/15	17:17
Carbon Tetrachloride	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	16:14
bromochloromethane	<0.010 mg/l		SW846 8260	0.0010	JA	9/24/15	16:14
Chlorobenzene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	16:14
Chloroethane	<0.010 mg/l		SW846-8260		JA	10/7/15	17:17
2-Chloroethyl Vinyl Ether	<0.020 mg/l		SW846-8260	0.0020	JA	9/24/15	16:14
Chloroform	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	16:14
Chloromethane	<0.010 mg/l		SW846-8260		JA	10/7/15	17:17
1,2-Dichlorobenzene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	16:14
1,3-Dichlorobenzene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	16:14
1,4-Dichlorobenzene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	16:14
1,1-Dichloroethane	<0.010 mg/l		SW846 8260	0.0010	JA	9/24/15	16:14
1,2-Dichloroethane	<0.010 mg/l		SW846 8260	0.0010	JA	9/24/15	16:14
trans-1,2-Dichloroethene	<0.010 mg/l		SW846 8260	0.0010	JA	9/24/15	16:14
trans-1,3-Dichloropropene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	16:14
1,1-Dichloroethene	<0.010 mg/l		SW846 8260		JA	10/7/15	17:17
1,2-Dichloropropane	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	16:14
cis-1,3-Dichloropropene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	16:14
Ethylbenzene	<0.010 mg/l		SW846 8260	0.0010	JA	9/24/15	16:14
Ethylene Chloride	<0.010 mg/l		SW846 8260	0.0010	JA	9/24/15	16:14

PA DEP 40-417
EPA PA00169

Certificate of Analysis

Customer: Keystone Landfill, Inc.
 249 Dunham Drive
 Dunmore, PA 18512

Report Date: 10/14/2015

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Material Tested: Non Potable Water

Date Sampled: 09/22/2015

Date Received: 09/22/2015

Time Sampled: 8:00

HawkMtn WO #: 1508-00166-001

Sampler: CLIENT

Sample Point ID: Effluent, Day 1

Client Sample ID: Treatment Plant Effluent, Day 1

<u>Test Name</u>	<u>Test Results</u>	<u>Qual</u>	<u>Method</u>	<u>Quant Limit</u>	<u>Tech</u>	<u>Analysis Date / Time</u>
Methyl Chloride	<0.010 mg/l		SW846-8260		JA	10/7/15 17:17
Methyl Bromide	<0.010 mg/l		SW846-8260		JA	10/7/15 17:17
1,1,2,2-Tetrachloroethane	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 16:14
Tetrachloroethene	<0.010 mg/l		SW846 8260	0.0010	JA	9/24/15 16:14
luene	<0.010 mg/l		SW846 8260	0.0010	JA	9/24/15 16:14
1,1,1-Trichloroethane	<0.010 mg/l		SW846 8260	0.0010	JA	9/24/15 16:14
1,1,2-Trichloroethane	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 16:14
Trichloroethene	<0.010 mg/l		SW846 8260	0.0010	JA	9/24/15 16:14
Trichlorofluoromethane	<0.010 mg/l		SW846-8260		JA	10/7/15 17:17
Vinyl Chloride	<0.010 mg/l		SW846 8260		JA	10/7/15 17:17
Xylene	<0.030 mg/l		SW846 8260	0.0030	JA	9/24/15 16:14

Data Qualifiers:

M3 = The sample matrix interfered with the analytical equipment or test result. Results are estimated.

N = Hawk Mtn. Labs does not hold accreditation from the PA-DEP for the field of accreditation.

M3- Spike failure due to sample matrix. Sample was spiked correctly, but produced a noticeably weaker color reaction as compared to the standard. JB 9/22/2015

Reporting limit adjusted due to sample dilution for Total Mercury.

The Molecular weight of the LAS standard solution for MBAS is 342g/mol



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Certificate of Analysis

Customer: Keystone Landfill, Inc.
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Dunmore, PA 18512

Report Date: 10/14/2015

Page 5 of 5

Material Tested: Non Potable Water

Date Sampled: 09/22/2015

Date Received: 09/22/2015

Time Sampled: 8:00

HawkMtn WO #: 1508-00166-001

Sampler: CLIENT

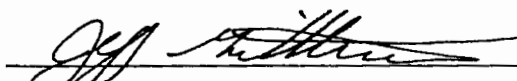
Sample Point ID: Effluent, Day 1

Client Sample ID: Treatment Plant Effluent, Day 1

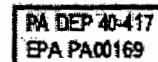
<u>Test Name</u>	<u>Test Results</u>	<u>Qual</u>	<u>Method</u>	<u>Quant Limit</u>	<u>Tech</u>	<u>Analysis Date / Time</u>
------------------	---------------------	-------------	---------------	--------------------	-------------	-----------------------------

These results relate only to the sample noted above.

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Jeff Gittleman, Lab Director


Andrea Mengel, Quality Director



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201 W. Clay Ave., Hazle Township, PA 18202
Phone (570) 455-6011 Fax (570) 455-8321
Chain of Custody

Samples Intact?	Y / N
Transported on ice?	Y / N
COC intact and complete?	Y / N
Correct containers?	Y / N
Adequate samples?	Y / N
Volatiles: headspace present?	Y / N
Completed by:	<u>JTD</u>
Samples/COC/Analysis agree?	<u>(X) Y / N</u>

Subject Line: Quarterly Treatment Plant Effluent, Day 1
Work Order #: 1508-00166 Sample ID: Effluent, Day 1
Sample 001: Treatment Plant Effluent, Day 1

Matrix: Non Potable Water

pH, Field	WA-FPH	<u>6.1</u>	su
Temp Upon Receipt	QC-TEMPREC	<u>6.0</u>	C
Transported on loose ice	QC-ICE	<u>yes</u>	
pH meter ID	QC-PHMETER	<u>NTA</u>	

Tech
JTD
JTD
JTD

Bottles:
☒ 2 Glass, 1 Liter H2SO4
☒ 1 Plastic, 500 ml NaOH Pellets +1g Ascorbic Acid
☒ 1 plastic half gallon Unpreserved Liter
☒ Plastic, 250ml HNO3
☒ Plastic, 500 ml H2SO4
☒ TSS Plastic, 1 Liter Unpreserved
☒ 3 Vials, 40ml HCL + 2 trip blanks
☒ 3 Vials, 40 ml Unpreserved + 2 trip blanks

Printed By: HH

Printed On: 6/15/2015

Approved By: APU

Sampling Comments:

Bottles Made By: H Bottles Checked By: JTD Composite Sample: Start Time/Date: 9/15/15 End Time/Date: 9/15/15

NOTES:

Sampled By:

Relinquished By:

Received By:

Relinquished By:

Received at Lab By:

Logged in By:

Date:

Time:

9/25/15 8am

9/22/15 1325

9/22/15 1500

9/22/15 1026



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Report Narrative

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 10/14/2015

Page 1 of 5

HawkMtn WO #: 1508-00167
Subject Line: Quarterly Treatment Plant Effluent, Day 2

Any information provided by client (CLT) has not been performed by HML and is not within the HML scope of accreditation.

All solid samples are reported on an "as received" basis unless otherwise noted.

The test results meet the requirements of 25 PA Code and Chapter 252, except where noted.

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PA DEP 40-417
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Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 10/14/2015

Page 2 of 5

Material Tested: Non Potable Water
Date Sampled: 09/23/2015 Time Sampled: 8:15
Date Received: 09/23/2015

HawkMtn WO #: 1508-00167-001
Sampler: CLIENT
Sample Point ID: Effluent, Day 2

Client Sample ID: Treatment Plant Effluent, Day 2

Test Name	Test Results	Qual	Method	Quant Limit	Tech	Analysis Date / Time	
pH, Field	7.4 su	N	SM 4500-H+B	0	Client	9/23/15	8:15
Color, Platinum-Cobalt	400 Pt-Co unit	N	SM 2120 B	1.0	JB	9/29/15	9:52
Total Suspended Solids	5.5 mg/l		SM 2540 D	5	NAM	9/25/15	11:10
Biochemical Oxygen Demand	10 mg/l		SM 5210 B	6	EM	9/24/15	16:48
anide	<0.01 mg/l		SM 4500-CN-E	0.01	APO	10/1/15	9:15
Surfactants, MBAS	<0.2 mg/l		SM 5540 C	0.2	JO	9/25/15	7:32
Ammonia-Nitrogen	16 mg/l		SM 4500-NH3 F	0.2	APO	9/24/15	16:42
Arsenic, Total ICP-MS	0.031 mg/l		EPA 200.8	0.001	EW	9/29/15	15:00
Cadmium, Total ICP-MS	<0.001 mg/l		EPA 200.8	0.001	EW	9/29/15	15:00
Copper, Total ICP-MS	0.0049 mg/l		EPA 200.8	0.001	EW	9/29/15	15:00
Chromium, Total ICP-MS	0.021 mg/l		EPA 200.8	0.001	EW	9/29/15	15:00
Chromium, Hexavalent	<0.25 mg/l	M3	SM 3500-Cr B	0.25	JB	9/23/15	16:23
Mercury, Total	<0.0005 mg/l		EPA 245.7	0.0005	CS	9/29/15	16:41
Nickel, Total ICP-MS	0.020 mg/l		EPA 200.8	0.001	EW	9/29/15	15:00
Lead, Total ICP-MS	<0.001 mg/l		EPA 200.8	0.001	EW	9/29/15	15:00
Silver, Total ICP-MS	<0.005 mg/l		EPA 200.8	0.005	EW	9/29/15	15:00
Zinc, Total ICP-MS	0.026 mg/l		EPA 200.8	0.005	EW	9/29/15	15:00
Total Petroleum Hydrocarbon	<4.0 mg/l		EPA 1664	4.0	JO	10/9/15	15:58
Oil and Grease	<4.0 mg/l	M2	EPA 1664 A	4.0	JO	9/28/15	10:30
Acrolein	<0.050 mg/l	M2	SW846-8260	0.0050	JA	9/24/15	17:19
Acrylonitrile	<0.020 mg/l		SW846-8260	0.0020	JA	9/24/15	17:19
benzene	<0.010 mg/l	M1	SW846-8260	0.0010	JA	9/24/15	17:19



PA DEP 40-417
EPA PA00169



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Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 10/14/2015

Page 3 of 5

Material Tested: Non Potable Water

Date Sampled: 09/23/2015

Date Received: 09/23/2015

Time Sampled: 8:15

HawkMtn WO #: 1508-00167-001

Sampler: CLIENT

Sample Point ID: Effluent, Day 2

Client Sample ID: Treatment Plant Effluent, Day 2

<u>Test Name</u>	<u>Test Results</u>	<u>Qual</u>	<u>Method</u>	<u>Quant Limit</u>	<u>Tech</u>	<u>Analysis Date / Time</u>	
Bromodichloromethane	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	17:19
Bromoform	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	17:19
Bromomethane	<0.010 mg/l	M1	SW846-8260		JA	10/7/15	17:17
Carbon Tetrachloride	<0.010 mg/l	M1	SW846-8260	0.0010	JA	9/24/15	17:19
monochloromethane	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	17:19
Chlorobenzene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	17:19
Chloroethane	<0.010 mg/l	M2	SW846-8260		JA	10/7/15	17:17
2-Chloroethyl Vinyl Ether	<0.020 mg/l		SW846-8260	0.0020	JA	9/24/15	17:19
Chloroform	<0.010 mg/l	M1	SW846-8260	0.0010	JA	9/24/15	17:19
Chloromethane	<0.010 mg/l		SW846-8260		JA	10/7/15	17:17
1,2-Dichlorobenzene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	17:19
1,3-Dichlorobenzene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	17:19
1,4-Dichlorobenzene	<0.010 mg/l	M1	SW846-8260	0.0010	JA	9/24/15	17:19
1,1-Dichloroethane	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	17:19
1,2-Dichloroethane	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	17:19
trans-1,2-Dichloroethene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	17:19
trans-1,3-Dichloropropene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	17:19
1,1-Dichloroethene	<0.010 mg/l		SW846-8260		JA	10/7/15	17:17
1,2-Dichloropropane	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	17:19
cis-1,3-Dichloropropene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	17:19
Ethylbenzene	<0.010 mg/l	M1	SW846-8260	0.0010	JA	9/24/15	17:19
ethylene Chloride	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	17:19



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Customer: Keystone Landfill, Inc.
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Dunmore, PA 18512

Report Date: 10/14/2015

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Material Tested: Non Potable Water

Date Sampled: 09/23/2015

Time Sampled: 8:15

Date Received: 09/23/2015

HawkMtn WO #: 1508-00167-001

Sampler: CLIENT

Sample Point ID: Effluent, Day 2

Client Sample ID: Treatment Plant Effluent, Day 2

<u>Test Name</u>	<u>Test Results</u>	<u>Qual</u>	<u>Method</u>	<u>Quant Limit</u>	<u>Tech</u>	<u>Analysis Date / Time</u>
Methyl Chloride	<0.010 mg/l		SW846-8260		JA	10/7/15 17:17
Methyl Bromide	<0.010 mg/l	M1	SW846-8260		JA	10/7/15 17:17
1,1,2,2-Tetrachloroethane	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 17:19
Tetrachloroethene	<0.010 mg/l		SW846 8260	0.0010	JA	9/24/15 17:19
ene	<0.010 mg/l	M1	SW846 8260	0.0010	JA	9/24/15 17:19
1,1,1-Trichloroethane	<0.010 mg/l		SW846 8260	0.0010	JA	9/24/15 17:19
1,1,2-Trichloroethane	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 17:19
Trichloroethene	<0.010 mg/l	M1	SW846 8260	0.0010	JA	9/24/15 17:19
Trichlorofluoromethane	<0.010 mg/l	M2	SW846-8260		JA	10/7/15 17:17
Vinyl Chloride	<0.010 mg/l	M1	SW846 8260		JA	10/7/15 17:17
Xylene	<0.030 mg/l		SW846 8260	0.0030	JA	9/24/15 17:19

Data Qualifiers:

M1 = The MS recovery was above the acceptance limits. Result may be biased high

M2 = The MS recovery was below the acceptance limits. Results are estimated.

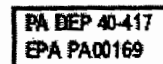
M3 = The sample matrix interfered with the analytical equipment or test result. Results are estimated.

N = Hawk Mtn. Labs does not hold accreditation from the PA-DEP for the field of accreditation.

M3- Spike failure due to sample matrix. Sample was spiked correctly, but produced a noticeably weaker color reaction as compared to the standard. JB 9/24/2015

Reporting limit adjusted due to sample dilution for Total Mercury.

The Molecular weight of the LAS standard solution for MBAS is 342g/mol





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Customer: Keystone Landfill, Inc.
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Report Date: 10/14/2015

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Material Tested: Non Potable Water

Date Sampled: 09/23/2015

Date Received: 09/23/2015

Time Sampled: 8:15

HawkMtn WO #: 1508-00167-001

Sampler: CLIENT

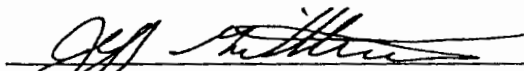
Sample Point ID: Effluent, Day 2

Client Sample ID: Treatment Plant Effluent, Day 2

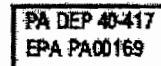
<u>Test Name</u>	<u>Test Results</u>	<u>Qual</u>	<u>Method</u>	<u>Quant Limit</u>	<u>Tech</u>	<u>Analysis Date / Time</u>
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These results relate only to the sample noted above.

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Jeff Gittleman, Lab Director


Andrea Mengel, Quality Director



Customer: Ystone Landfill, Inc.
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Dunmore, PA 18512

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Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples analyzed	
Transported on ice?	<u>Y</u> / <u>N</u>
COC intact and complete?	<u>Y</u> / <u>N</u>
Correct containers?	<u>Y</u> / <u>N</u>
Adequate samples?	<u>Y</u> / <u>N</u>
Volatiles: headspace present?	<u>Y</u> / <u>N</u>
Completed by:	<u>JZO</u>
Samples/COC/Analysis agree?	<u>Y</u> / <u>N</u> <u>02/1</u>

Subject Line: Quarterly Treatment Plant Effluent, Day 2
Work Order #: 1508-00167 Sample ID: Effluent, Day 2
Sample 001: Treatment Plant Effluent, Day 2

Matrix: Non Potable Water

pH, Field	WA-FPH	<u>7.4</u>	su
Temp Upon Receipt	QC-TEMPREC	<u>5.0</u>	C
Transported on loose ice	QC-ICE	<u>YES</u>	
pH meter ID	QC-PHMETER	<u>N/A</u>	

Technician: JZO
Bottles:
☒ 2 Glass, 1 Liter H2SO4
☒ 1 Plastic, 500 ml NaOH Pellets +1g Ascorbic Acid
☒ 1 plastic half gallon Unpreserved Water
☒ Plastic, 250ml HNO3
☒ Plastic, 500 ml H2SO4
☒ TSS Plastic, 1 Liter Unpreserved
☒ 3 Vials, 40ml HCL + 2 trip blanks
☒ 3 Vials, 40 ml Unpreserved + 2 trip blanks

Printed By: HH

Printed On: 6/15/2015

Approved By: APD

Sampling Comments:

Bottles Made By: HH Bottles Checked By: JZO Composite Sample: Start Time/Date: 9/23 8am End Time/Date: 9/23 8am

NOTES:

Sampled By: JZO

Relinquished By: Client

Received By: Joseph O'Neil

Relinquished By:

Received at Lab By: Joseph O'Neil

Logged In By: Shanda Pearson

Date:	Time:
<u>9/23/15</u>	<u>8:15</u>
<u>9/23/15</u>	<u>1417</u>
<u>9/23/15</u>	<u>1417</u>
<u>9/23/15</u>	<u>1540</u>
<u>9/23/15</u>	<u>1611</u>



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Report Narrative

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 10/14/2015

Page 1 of 5

HawkMtn WO #: 1508-00168
Subject Line: Quarterly Treatment Plant Effluent, Day 3

Any information provided by client (CLT) has not been performed by HML and is not within the HML scope of accreditation.

All solid samples are reported on an "as received" basis unless otherwise noted.

The test results meet the requirements of 25 PA Code and Chapter 252, except where noted.

The information contained in this analytical report is the sole property of Hawk MTN Laboratories, Inc.

and that of the client. It cannot be reproduced in any form without the consent of Hawk MTN Labs, Inc. or the client for which this report was issued. The results contained in this report(s) are only representative of the sample(s) received. Conditions are dependant on location and time of the sampling event.

Hawk MTN Laboratories, Inc. is not responsible for use or interpretation of the data included herein.



PA DEP 40-417
EPA PA00169



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Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 10/14/2015

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Material Tested: Non Potable Water

HawkMtn WO #: 1508-00168-001

Date Sampled: 09/24/2015

Time Sampled: 8:15

Sampler: CLIENT

Date Received: 09/24/2015

Sample Point ID: Effluent, Day 3

Client Sample ID: Treatment Plant Effluent, Day 3

<u>Test Name</u>	<u>Test Results</u>	<u>Qual</u>	<u>Method</u>	<u>Quant Limit</u>	<u>Tech</u>	<u>Analysis Date / Time</u>	
pH, Field	6.6 su	N	SM 4500-H+B	0	Client	9/24/15	8:15
Color, Platinum-Cobalt	600 Pt-Co unit	N	SM 2120 B	1.0	JB	9/29/15	9:52
Total Suspended Solids	5 mg/l		SM 2540 D	5	NAM	9/29/15	9:01
Biochemical Oxygen Demand	34 mg/l		SM 5210 B	6	EM	9/24/15	16:48
anide	<0.01 mg/l	M2	SM 4500-CN-E	0.01	APO	10/1/15	9:18
Surfactants, MBAS	0.39 mg/l		SM 5540 C	0.2	JO	9/25/15	7:32
Ammonia-Nitrogen	28 mg/l		SM 4500-NH3 F	0.2	APO	9/30/15	15:38
Arsenic, Total ICP-MS	0.082 mg/l		EPA 200.8	0.001	EW	9/30/15	14:33
Cadmium, Total ICP-MS	<0.001 mg/l		EPA 200.8	0.001	EW	9/30/15	14:33
Copper, Total ICP-MS	0.0087 mg/l		EPA 200.8	0.001	EW	9/30/15	14:33
Chromium, Total ICP-MS	0.034 mg/l		EPA 200.8	0.001	EW	10/2/15	14:30
Chromium, Hexavalent	<0.25 mg/l	M3	SM 3500-Cr B	0.25	JB	9/24/15	16:55
Mercury, Total	0.00057 mg/l		EPA 245.7	0.0001	CS	9/29/15	16:49
Nickel, Total ICP-MS	0.038 mg/l		EPA 200.8	0.001	EW	9/30/15	14:33
Lead, Total ICP-MS	<0.001 mg/l		EPA 200.8	0.001	EW	9/30/15	14:33
Silver, Total ICP-MS	<0.005 mg/l		EPA 200.8	0.005	EW	9/30/15	14:33
Zinc, Total ICP-MS	0.032 mg/l		EPA 200.8	0.005	EW	10/5/15	12:16
Total Petroleum Hydrocarbon	<4.0 mg/l		EPA 1664	4.0	JO	10/9/15	15:58
Oil and Grease	<4.0 mg/l		EPA 1664 A	4.0	JO	9/28/15	10:30
Acrolein	<0.050 mg/l		SW846-8260	0.0050	JA	9/24/15	18:40
Acrylonitrile	<0.020 mg/l		SW846-8260	0.0020	JA	9/24/15	18:40
Benzene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15	18:40

PA DEP 40-417
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Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 10/14/2015

Page 3 of 5

Material Tested: Non Potable Water
Date Sampled: 09/24/2015 Time Sampled: 8:15
Date Received: 09/24/2015

HawkMtn WO #: 1508-00168-001
Sampler: CLIENT
Sample Point ID: Effluent, Day 3

Client Sample ID: Treatment Plant Effluent, Day 3

<u>Test Name</u>	<u>Test Results</u>	<u>Qual</u>	<u>Method</u>	<u>Quant Limit</u>	<u>Tech</u>	<u>Analysis Date / Time</u>
Bromodichloromethane	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
Bromoform	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
Bromomethane	<0.010 mg/l		SW846-8260		JA	10/7/15 17:17
Carbon Tetrachloride	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
Chloromochloromethane	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
Chlorobenzene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
Chloroethane	<0.010 mg/l		SW846-8260		JA	10/7/15 17:17
2-Chloroethyl Vinyl Ether	<0.020 mg/l		SW846-8260	0.0020	JA	9/24/15 18:40
Chloroform	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
Chloromethane	<0.010 mg/l		SW846-8260		JA	10/7/15 17:17
1,2-Dichlorobenzene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
1,3-Dichlorobenzene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
1,4-Dichlorobenzene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
1,1-Dichloroethane	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
1,2-Dichloroethane	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
trans-1,2-Dichloroethene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
trans-1,3-Dichloropropene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
1,1-Dichloroethene	<0.010 mg/l		SW846-8260		JA	10/7/15 17:17
1,2-Dichloropropane	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
cis-1,3-Dichloropropene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
Ethylbenzene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
Methylene Chloride	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40



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Customer: Keystone Landfill, Inc.
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Report Date: 10/14/2015

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Material Tested: Non Potable Water

Date Sampled: 09/24/2015

Date Received: 09/24/2015

Time Sampled: 8:15

HawkMtn WO #: 1508-00168-001

Sampler: CLIENT

Sample Point ID: Effluent, Day 3

Client Sample ID: Treatment Plant Effluent, Day 3

<u>Test Name</u>	<u>Test Results</u>	<u>Qual</u>	<u>Method</u>	<u>Quant Limit</u>	<u>Tech</u>	<u>Analysis Date / Time</u>
Methyl Chloride	<0.010 mg/l		SW846-8260		JA	10/7/15 17:17
Methyl Bromide	<0.010 mg/l		SW846-8260		JA	10/7/15 17:17
1,1,2,2-Tetrachloroethane	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
Tetrachloroethene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
uene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
1,1,1-Trichloroethane	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
1,1,2-Trichloroethane	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
Trichloroethene	<0.010 mg/l		SW846-8260	0.0010	JA	9/24/15 18:40
Trichlorofluoromethane	<0.010 mg/l		SW846-8260		JA	10/7/15 17:17
Vinyl Chloride	<0.010 mg/l		SW846-8260		JA	10/7/15 17:17
Xylene	<0.030 mg/l		SW846-8260	0.0030	JA	9/24/15 18:40

Data Qualifiers:

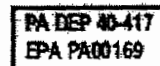
M2 = The MS recovery was below the acceptance limits. Results are estimated.

M3 = The sample matrix interfered with the analytical equipment or test result. Results are estimated.

N = Hawk Mtn. Labs does not hold accreditation from the PA-DEP for the field of accreditation.

M3- Spike failure due to sample matrix. Sample was spiked correctly, but produced a noticeably weaker color reaction as compared to the standard. JB 9/25/2015

The Molecular weight of the LAS standard solution for MBAS is 342g/mol





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Certificate of Analysis

Customer: Keystone Landfill, Inc.
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Report Date: 10/14/2015

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Material Tested: Non Potable Water
Date Sampled: 09/24/2015 Time Sampled: 8:15
Date Received: 09/24/2015

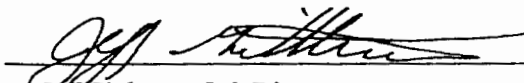
HawkMtn WO #: 1508-00168-001
Sampler: CLIENT
Sample Point ID: Effluent, Day 3

Client Sample ID: Treatment Plant Effluent, Day 3

<u>Test Name</u>	<u>Test Results</u>	<u>Qual</u>	<u>Method</u>	<u>Quant</u> <u>Limit</u>	<u>Tech</u>	<u>Analysis Date / Time</u>
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These results relate only to the sample noted above.

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Jeff Gittleman, Lab Director


Andrea Mengel, Quality Director



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Chain of Custody

Samples intact?	Y	N
Transported on ice?	Y	N
COC intact and complete?	Y	N
Correct containers?	Y	N
Adequate samples?	Y	N
Volatiles: headspace present?	Y	N
Completed by:	JZO	
Samples/COC/Analysis agree?	Y	N

Subject Line: Quarterly Treatment Plant Effluent, Day 3
Work Order #: 1508-00168 Sample ID: Effluent, Day 3
Sample 001: Treatment Plant Effluent, Day 3

Matrix: Non Potable Water

pH, Field	WA-FPH	<u>6.6</u>	su
Temp Upon Receipt	QC-TEMPREC	<u>2.0</u>	C
Transported on loose ice	QC-ICE	<u>Yes</u>	
pH meter ID	QC-PHMETER	<u>N/A</u>	

Tech
JZO
JZO
JZO

Bottles:
☒ 2 Glass, 1 Liter H2SO4
☒ 1 Plastic, 500 ml NaOH Pellets + 1g Ascorbic Acid
☒ 1 plastic half gallon Unpreserved Water
☒ Plastic, 250ml HNO3
☒ Plastic, 500 ml H2SO4
☒ TSS Plastic, 1 Liter Unpreserved
☒ 3 Vials, 40ml HCL + 2 trip blanks
☒ 3 Vials, 40 ml Unpreserved + 2 trip blanks

Printed By: HH

Printed On: 6/15/2015

Approved By: APD

Sampling Comments:

Bottles Made By: HH Bottles Checked By: JZO Composite Sample: Start Time/Date: 9/24/15 End Time/Date: 9/24/15

NOTES:

Sampled By: [Signature]
Relinquished By: Client
Received By: Holly Hader
Relinquished By: Holly Hader
Received at Lab By: Joseph [Signature]
Logged In By: Quandary [Signature]

Date:	Time:
<u>9/24/15</u>	<u>8:15</u>
<u>9-24-15</u>	<u>11:07</u>
<u>9-24-15</u>	<u>11:07</u>
<u>9-24-15</u>	<u>15:30</u>
<u>9/24/15</u>	<u>1400</u>
<u>9/24/15</u>	<u>1638</u>



July 23, 2015

Mr. Jay Nardone
Scranton Sewer Authority
312 Adams Avenue
Scranton, PA 18503

RE: LEACHATE/TREATMENT PLANT EFFLUENT

Dear Mr. Barrett:

Attached please find the analysis for the Leachate/Treatment Plant Effluent and the Chain of Custody for the second quarter.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please call.

Sincerely,

A handwritten signature in black ink, appearing to read 'Joe Dexter', is written over the printed name.

Joseph E. Dexter, P.E.
Site Manager



201 West Clay Avenue / Hazle Township, PA 18202

PHONE (570) 455-6011 - FAX (570) 455-6321

www.hawkmtlabs.com

Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 6/2/2015

Page 2 of 4

Material Tested: Non Potable Water HawkMtn WO #: 1505-00132-001
Date Sampled: 05/14/2015 Time Sampled: 14:15 Sampler: CLIENT
Date Received: 05/15/2015 Sample Point ID: Effluent, Day 1

Client Sample ID: Treatment Plant Effluent, Day 1

Test Name	Test Results	Qual	Method	Quant Limit	Tech	Analysis Date/Time
pH, Field	8.3 su	N	SM 4500-H+B	0	Client	5/14/15
Color, Platinum-Cobalt	250 Pt-Co unit	N	SM 2120 B	1.0	JB	5/19/15
Total Suspended Solids	43 mg/l		SM 2540 D	5	NAM	5/18/15
Biochemical Oxygen Demand	62.7 mg/l	B	SM 5210 B	6	EM	5/15/15
Cyanide	0.04 mg/l		SM 4500-CN-E	0.01	APO	5/19/15
Surfactants, MBAS	<2 mg/l		SM 5540 C	0.2	JO	5/15/15
Ammonia-Nitrogen	129 mg/l	V	SM 4500-NH3 F	0.5	APO	5/27/15
Asenic, Total ICP-MS	0.0590 mg/l		EPA 200.8	0.001	EW	5/20/15
Cadmium, Total ICP-MS	<0.001 mg/l		EPA 200.8	0.001	EW	5/20/15
Copper, Total ICP-MS	0.0176 mg/l		EPA 200.8	0.001	EW	5/20/15
Chromium, Total ICP-MS	0.0366 mg/l		EPA 200.8	0.001	EW	5/20/15
Chromium, Hexavalent	<0.25 mg/l	H	SM 3500-Cr B	0.25	JB	5/15/15
Mercury, Total	0.00064 mg/l	D	EPA 245.7	0.0001	CS	5/20/15
Nickel, Total ICP-MS	0.0368 mg/l		EPA 200.8	0.001	EW	5/20/15
Lead, Total ICP-MS	0.0010 mg/l		EPA 200.8	0.001	EW	5/20/15
Silver, Total ICP-MS	<0.005 mg/l		EPA 200.8	0.005	EW	5/20/15
Zinc, Total ICP-MS	0.0741 mg/l		EPA 200.8		EW	5/26/15
Total Petroleum Hydrocarbon	<2.0 mg/l		EPA 1664	2.0	JB	5/27/15
Oil and Grease	<4.0 mg/l		EPA 1664 A	4.0	JB	5/18/15
Acrolein	<0.0500 mg/l	G	SW846-8260	0.0050	JA	5/15/15
Acrylonitrile	<0.0200 mg/l	Q	SW846-8260	0.0020	JA	5/15/15
Benzene	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
Bromodichloromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
Bromoform	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
Bromomethane	<0.0500 mg/l	X,Q,G,V	SW846-8260	0.0010	JA	5/15/15
Carbon Tetrachloride	<0.0100 mg/l	Q,V	SW846-8260	0.0010	JA	5/15/15
Dibromochloromethane	<0.0100 mg/l	G,X	SW846-8260	0.0010	JA	5/15/15
Chlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
Chloroethane	<0.0100 mg/l	Q,V	SW846-8260	0.0010	JA	5/15/15
2-Chloroethyl Vinyl Ether	<0.0200 mg/l		SW846-8260	0.0020	JA	5/15/15
Chloroform	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
Chloromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
1,2-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
1,3-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
1,4-Dichlorobenzene	< mg/l		SW846-8260	0.0010	JA	5/15/15

PA DEP 40-417
EPA PA00169



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Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 6/2/2015

Page 3 of 4

Material Tested: Non Potable Water HawkMtn WO #: 1505-00132-001
Date Sampled: 05/14/2015 Time Sampled: 14:15 Sampler: CLIENT
Date Received: 05/15/2015 Sample Point ID: Effluent, Day 1

Client Sample ID: Treatment Plant Effluent, Day 1

Test Name	Test Results	Qual	Method	Quant		Analysis Date
				Limit	Tech	
1,1-Dichloroethane	<0.0100 mg/l	V	SW846 8260	0.0010	JA	5/15/15
1,2-Dichloroethane	<0.0100 mg/l		SW846 8260	0.0010	JA	5/15/15
trans-1,2-Dichloroethene	<0.0100 mg/l	Q	SW846 8260	0.0010	JA	5/15/15
trans-1,3-Dichloropropene	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
1,1-Dichloroethene	<0.0100 mg/l	Q	SW846 8260	0.0010	JA	5/15/15
1,2-Dichloropropane	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
cis-1,3-Dichloropropene	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
Styrene	<0.0100 mg/l		SW846 8260	0.0010	JA	5/15/15
Ethylene Chloride	<0.0100 mg/l		SW846 8260	0.0010	JA	5/15/15
Methyl Chloride	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
Methyl Bromide	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
1,1,2,2-Tetrachloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
Tetrachloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	5/15/15
Toluene	<0.0100 mg/l		SW846 8260	0.0010	JA	5/15/15
1,1,1-Trichloroethane	<0.0100 mg/l		SW846 8260	0.0010	JA	5/15/15
1,1,2-Trichloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
Trichloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	5/15/15
Trichlorofluoromethane	<0.0100 mg/l	Q	SW846-8260	0.0010	JA	5/15/15
Vinyl Chloride	<0.0100 mg/l	Q	SW846 8260	0.0010	JA	5/15/15
Xylene	<0.0300 mg/l		SW846 8260	0.0030	JA	5/15/15
Temp Upon Receipt	5.8 C	N		0	EM	5/15/15
Transported on loose ice	YES			0	EM	5/15/15
Digestion, Cyanide, Water	1 ml		SM 4500 CN C		APO	5/18/15
Digestion, Ammonia Nitrogen	1 ml		SM 4500 NH3 B		APO	5/19/15
Digestion, ICP/MS 200.8	50 ml		EPA 200.8		APO	5/18/15
Mercury	50 ml		EPA 245.7	50	CS	5/20/15

Data Qualifiers:

N = Analyte is NOT accredited under the HML scope of accreditation

Q = Second Source Calibration Verification was outside QC limits

V = Continuing Calibration Verification was outside QC limits

VOC Analysis: X= Bromomethane fails in the initial calibration. Calibration passes using the average % RSD.

Bromomethane area counts fail low in the Continuing Calibration Verification (CCV) at 5.0.

Dibromochloromethane area counts fail low in the CCV at 10.0.

PA DEP 40-417
EPA PA00169



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Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 6/2/2015

Page 4 of 4

Material Tested:	Non Potable Water	HawkMtn WO #:	1505-00132-001
Date Sampled:	05/14/2015	Time Sampled:	14:15
Date Received:	05/15/2015	Sampler:	CLIENT
		Sample Point ID:	Effluent, Day 1

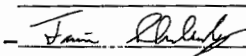
Client Sample ID: Treatment Plant Effluent, Day 1

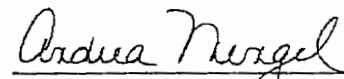
<u>Test Name</u>	<u>Test Results</u>	<u>Qual</u>	<u>Method</u>	<u>Quant</u> <u>Limit</u>	<u>Tech</u>	<u>Analysis Date</u>
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MBAS, calculated as LAS, molecular weight 60.

These results relate only to the sample noted above.

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FRANCIS SHUKAUSKY, Interim Technical Direc


Andrea Mengel, Quality Director



PA DEP 40-417
EPA PA00169

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

HAWKMTN LAB INC.
201 W. Clay Ave., Hazle Township, PA 18202
Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples Intact?	Y	N
Transported on ice?	Y	N
COC intact and complete?	Y	N
Correct containers?	Y	N
Adequate samples?	Y	N
Volatiles: headspace present?	Y	N
Completed by:	[Signature]	
Samples/COC/Analysis agree?	Y	N

Subject Line: Quarterly Treatment Plant Effluent, Day 1
Work Order #: 1505-00132 Sample ID: Effluent, Day 1
Sample 001: Treatment Plant Effluent, Day 1

Matrix: Non Potable Water

pH, Field	WA-FPH	8.3	su
Temp Upon Receipt	QC-TEMPREC	5.8	C
Transported on loose ice	QC-ICE	yes	
pH meter ID	QC-PHMETER	NA	

Tech	Bottles:
[Signature]	<input checked="" type="checkbox"/> 2 Glass, 1 Liter H2SO4
[Signature]	<input checked="" type="checkbox"/> 1 Plastic, 500 ml NaOH Pellets + 1g Ascorbic Acid
[Signature]	<input checked="" type="checkbox"/> 1 plastic half gallon Unpreserved
[Signature]	<input checked="" type="checkbox"/> Plastic, 250ml HNO3
	<input checked="" type="checkbox"/> Plastic, 500 ml H2SO4
	<input checked="" type="checkbox"/> TSS Plastic, 1 Liter Unpreserved
	<input checked="" type="checkbox"/> 3 Vials, 40ml HCL + 2 trip blanks
	<input checked="" type="checkbox"/> 3 Vials, 40 ml Unpreserved + 2 trip blanks

Printed By: [Signature]

Printed On: 4/16/2015

Approved By: [Signature]

Sampling Comments:

Bottles Made By: [Signature] Bottles Checked By: [Signature] Composite Sample: Start Time/Date: 5/13/15 12N End Time/Date: 5/14/15 12N

NOTES:

Sampled By: [Signature]
Relinquished By: [Signature]
Received By: [Signature]
Relinquished By: [Signature]
Received at Lab By: [Signature]
Logged in By: [Signature]

Date:	Time:
5/14/15	2:15pm
5/15/15	12:05
5/15/15	12:30
5/15/15	13:35
5/15/15	1349

Certificate of Analysis

Customer: Keystone Landfill, Inc.
 249 Dunham Drive
 Dunmore, PA 18512

Report Date: 6/2/2015

Page 2 of 4

Material Tested:	Non Potable Water	HawkMtn WO #:	1505-00133-001
Date Sampled:	05/15/2015	Time Sampled:	12:00
Date Received:	05/15/2015	Sampler:	CLIENT
		Sample Point ID:	Effluent, Day 2

Client Sample ID: Treatment Plant Effluent, Day 2

Test Name	Test Results	Qual	Method	Quant Limit	Tech	Analysis Date/Time
pH, Field	6.8 su	N	SM 4500-H+B	0	Client	5/15/15
Color, Platinum-Cobalt	740 Pt-Co unit	N	SM 2120 B	1.0	JB	5/19/15
Total Suspended Solids	36 mg/l		SM 2540 D	5	NAM	5/18/15
Biochemical Oxygen Demand	43.2 mg/l	B	SM 5210 B	6	EM	5/15/15
Cyanide	0.06 mg/l	M	SM 4500-CN-E	0.01	APO	5/19/15
Surfactants, MBAS	<2 mg/l		SM 5540 C	0.2	JO	5/15/15
Ammonia-Nitrogen	90.2 mg/l	V	SM 4500-NH3 F	0.5	APO	5/27/15
senic, Total ICP-MS	0.0476 mg/l		EPA 200.8	0.001	EW	5/20/15
Cadmium, Total ICP-MS	<0.001 mg/l		EPA 200.8	0.001	EW	5/20/15
Copper, Total ICP-MS	0.0341 mg/l	M	EPA 200.8	0.001	EW	5/20/15
Chromium, Total ICP-MS	0.0337 mg/l	M	EPA 200.8	0.001	EW	5/20/15
Chromium, Hexavalent	<0.25 mg/l	M	SM 3500-Cr B	0.25	JB	5/15/15
Mercury, Total	0.00036 mg/l	D	EPA 245.7	0.0001	CS	5/20/15
Nickel, Total ICP-MS	0.0529 mg/l	M	EPA 200.8	0.001	EW	5/20/15
Lead, Total ICP-MS	0.0011 mg/l		EPA 200.8	0.001	EW	5/20/15
Silver, Total ICP-MS	<0.005 mg/l		EPA 200.8	0.005	EW	5/20/15
Zinc, Total ICP-MS	0.441 mg/l		EPA 200.8		EW	5/26/15
Total Petroleum Hydrocarbon	<2.0 mg/l		EPA 1664	2.0	JB	5/27/15
Oil and Grease	7.37 mg/l		EPA 1664 A	4.0	JB	5/18/15
Acrolein	<0.0500 mg/l	G	SW846-8260	0.0050	JA	5/15/15
Acrylonitrile	<0.0200 mg/l	Q	SW846-8260	0.0020	JA	5/15/15
Benzene	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
Bromodichloromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
Bromoform	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
Bromomethane	<0.0500 mg/l	X,Q,G,V	SW846-8260	0.0050	JA	5/15/15
Carbon Tetrachloride	<0.0100 mg/l	Q,V	SW846-8260	0.0010	JA	5/15/15
Dibromochloromethane	<0.0100 mg/l	G,X	SW846-8260	0.0010	JA	5/15/15
Chlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
Chloroethane	<0.0100 mg/l	Q,V	SW846-8260	0.0010	JA	5/15/15
2-Chloroethyl Vinyl Ether	<0.0200 mg/l		SW846-8260	0.0020	JA	5/15/15
Chloroform	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
Chloromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
2-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
3-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
1,4-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15



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Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 6/2/2015

Page 3 of 4

Material Tested: Non Potable Water HawkMtn WO #: 1505-00133-001
Date Sampled: 05/15/2015 Time Sampled: 12:00 Sampler: CLIENT
Date Received: 05/15/2015 Sample Point ID: Effluent, Day 2

Client Sample ID: Treatment Plant Effluent, Day 2

Test Name	Test Results	Qual	Method	Quant Limit	Tech	Analysis Date
1,1-Dichloroethane	<0.0100 mg/l	V	SW846 8260	0.0010	JA	5/15/15
1,2-Dichloroethane	<0.0100 mg/l		SW846 8260	0.0010	JA	5/15/15
trans-1,2-Dichloroethene	<0.0100 mg/l	Q	SW846 8260	0.0010	JA	5/15/15
trans-1,3-Dichloropropene	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
1,1-Dichloroethene	<0.0100 mg/l	Q	SW846 8260	0.0010	JA	5/15/15
1,2-Dichloropropane	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
cis-1,3-Dichloropropene	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
Styrene	<0.0100 mg/l		SW846 8260	0.0010	JA	5/15/15
Methylene Chloride	<0.0100 mg/l		SW846 8260	0.0010	JA	5/15/15
Methyl Chloride	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
Methyl Bromide	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
1,1,2,2-Tetrachloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
Tetrachloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	5/15/15
Toluene	<0.0100 mg/l		SW846 8260	0.0010	JA	5/15/15
1,1,1-Trichloroethane	<0.0100 mg/l		SW846 8260	0.0010	JA	5/15/15
1,1,2-Trichloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	5/15/15
Trichloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	5/15/15
Trichlorofluoromethane	<0.0100 mg/l	Q	SW846-8260	0.0010	JA	5/15/15
Vinyl Chloride	<0.0100 mg/l	Q	SW846 8260	0.0010	JA	5/15/15
Xylene	<0.0300 mg/l		SW846 8260	0.0030	JA	5/15/15
Temp Upon Receipt	5.2 C	N		0	EM	5/15/15
Transported on loose ice	YES			0	EM	5/15/15
Digestion, Cyanide, Water	1 ml		SM 4500 CN C		APO	5/18/15
Digestion, Ammonia Nitrogen	1 ml		SM 4500 NH3 B		APO	5/19/15
Digestion, ICP/MS 200.8	50 ml		EPA 200.8		APO	5/18/15
Mercury	50 ml		EPA 245.7	50	CS	5/20/15

Data Qualifiers:

N = Analyte is NOT accredited under the HML scope of accreditation

Q = Second Source Calibration Verification was outside QC limits

V = Continuing Calibration Verification was outside QC limits

VOC Analysis: X= Bromomethane fails in the initial calibration. Calibration passes using the average % RSD.

Bromomethane area counts fail low in the Continuing Calibration Verification (CCV) at 5.0.

Dibromochloromethane area counts fail low in the CCV at 10.0.

PA DEP 40-417
EPA PA00169



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Certificate of Analysis

Customer: Keystone Landfill, Inc.
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Report Date: 6/2/2015

Page 4 of 4

Material Tested:	Non Potable Water	HawkMtn WO #:	1505-00133-001
Date Sampled:	05/15/2015	Time Sampled:	12:00
Date Received:	05/15/2015	Sampler:	CLIENT
		Sample Point ID:	Effluent, Day 2

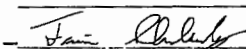
Client Sample ID: Treatment Plant Effluent, Day 2

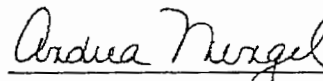
<u>Test Name</u>	<u>Test Results</u>	<u>Qual</u>	<u>Method</u>	<u>Quant</u>	<u>Limit</u>	<u>Tech</u>	<u>Analysis Date</u>
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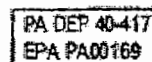
MBAS, calculated as LAS, molecular weight 60.

These results relate only to the sample noted above.

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Francis Snukauskas, Interim Technical Direc


Andrea Mengel, Quality Director



Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

HAWKMTN LABS, INC.
201 W. Clay Ave., Hazle Township, PA 18202
Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples Intact?	Y	N
Transported on ice?	Y	N
COC Intact and complete?	Y	N
Correct containers?	Y	N
Adequate samples?	Y	N
Volatiles: headspace present?	Y	N
Completed by:	Ean	
Samples/COC/Analysis agree?	Y	N

Subject Line: Quarterly Treatment Plant Effluent, Day 2

Matrix: Non Potable Water

Work Order #: 1505-00133 Sample ID: Effluent, Day 2

Sample 001: Treatment Plant Effluent, Day 2

pH, Field
Temp Upon Receipt
Transported on loose ice
pH meter ID

WA-FPH
QC-TEMPREC
QC-ICE
QC-PHMETER

6.8
8
yes
NA

su
5.2°

Tech
DLE
Ean
Ean
Rue

Bottles:

- ☒ 2 Glass, 1 Liter H2SO4
- ☒ 1 Plastic, 500 ml NaOH Pellets +1g Ascorbic Acid
- ☒ 1 plastic half gallon Unpreserved
- ☒ Plastic, 250ml HNO3
- ☒ Plastic, 500 ml H2SO4
- ☒ TSS Plastic, 1 Liter Unpreserved
- ☒ 3 Vials, 40ml HCL + 2 trip blanks
- ☒ 3 Vials, 40 ml Unpreserved + 2 trip blanks

Printed By: HH

Printed On: 4/16/2015

Approved By: DH

Sampling Comments:

Bottles Made By: HH Bottles Checked By: JAD Composite Sample: Start Time/Date: End Time/Date:

NOTES:

	Date:	Time:
Sampled By: (H) Kowitnick	5-15	1200
Relinquished By: (H) Kowitnick	5-15	1220
Received By: [Signature]	5/15/15	12:30
Relinquished By: [Signature]	5/15/15	13:30
Received at Lab By: [Signature]	5-15-15	13:55
Logged in By: [Signature]	5/15/15	1347



201 West Clay Avenue / Hazle Township, PA 18202

PHONE (570) 455-6011 - FAX (570) 455-6321

www.hawkmtlabs.com

Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 6/2/2015

Page 2 of 4

Material Tested: Non Potable Water HawkMtn WO #: 1505-00134-001
Date Sampled: 05/16/2015 Time Sampled: 9:00 Sampler: CLIENT
Date Received: 05/16/2015 Sample Point ID: Effluent, Day 3

Client Sample ID: Treatment Plant Effluent, Day 3

Test Name	Test Results	Qual	Method	Quant	Tech	Analysis Date/Time
				Limit		
pH, Field	7.54 su	N	SM 4500-H+B	0	Client	5/16/15
Color, Platinum-Cobalt	740 Pt-Co unit	N	SM 2120 B	1.0	JB	5/19/15
Total Suspended Solids	36 mg/l		SM 2540 D	5	NAM	5/18/15
Biochemical Oxygen Demand	38.4 mg/l		SM 5210 B	6	EM	5/18/15
Cyanide	0.07 mg/l		SM 4500-CN-E	0.01	APO	5/19/15
Surfactants, MBAS	0.39 mg/l		SM 5540 C	2	JO	5/18/15
Ammonia-Nitrogen	83.1 mg/l	V	SM 4500-NH3 F	0.5	APO	5/27/15
Mercuric, Total ICP-MS	0.0446 mg/l		EPA 200.8	0.001	EW	5/20/15
Cadmium, Total ICP-MS	<0.001 mg/l		EPA 200.8	0.001	EW	5/20/15
Copper, Total ICP-MS	0.0294 mg/l		EPA 200.8	0.001	EW	5/20/15
Chromium, Total ICP-MS	0.0310 mg/l		EPA 200.8	0.001	EW	5/20/15
Chromium, Hexavalent	<0.25 mg/l	H,M	SM 3500-Cr B	0.25	JB	5/17/15
Mercury, Total	0.00065 mg/l	D	EPA 245.7	0.0001	CS	5/20/15
Nickel, Total ICP-MS	0.0481 mg/l		EPA 200.8	0.001	EW	5/20/15
Lead, Total ICP-MS	<0.001 mg/l		EPA 200.8	0.001	EW	5/20/15
Silver, Total ICP-MS	<0.005 mg/l		EPA 200.8	0.005	EW	5/20/15
Zinc, Total ICP-MS	0.148 mg/l	D	EPA 200.8		EW	5/26/15
Total Petroleum Hydrocarbon	<2.0 mg/l		EPA 1664	2.0	JB	5/27/15
Oil and Grease	<4.0 mg/l		EPA 1664 A	4.0	JB	5/18/15
Acrolein	<0.0500 mg/l		SW846-8260	0.0050	JA	5/17/15
Acrylonitrile	<0.0200 mg/l		SW846-8260	0.0020	JA	5/17/15
Benzene	<0.0100 mg/l		SW846-8260	0.0010	JA	5/17/15
Bromodichloromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	5/17/15
Bromoform	<0.0100 mg/l		SW846-8260	0.0010	JA	5/17/15
Bromomethane	<0.0500 mg/l	X,Q,V,G	SW846-8260	0.0050	JA	5/17/15
Carbon Tetrachloride	<0.0100 mg/l	Q,V	SW846-8260	0.0010	JA	5/17/15
Dibromochloromethane	<0.0100 mg/l	G,X	SW846-8260	0.0010	JA	5/17/15
Chlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	5/17/15
Chloroethane	<0.0100 mg/l	Q,V	SW846-8260	0.0010	JA	5/17/15
2-Chloroethyl Vinyl Ether	<0.0200 mg/l		SW846-8260	0.0020	JA	5/17/15
Chloroform	<0.0100 mg/l		SW846-8260	0.0010	JA	5/17/15
Chloromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	5/17/15
2-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	5/17/15
1,3-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	5/17/15
1,4-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	5/17/15

PA DEP 40-417
EPA PA00169



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Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 6/2/2015

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Material Tested: Non Potable Water HawkMtn WO #: 1505-00134-001
Date Sampled: 05/16/2015 Time Sampled: 9:00 Sampler: CLIENT
Date Received: 05/16/2015 Sample Point ID: Effluent, Day 3

Client Sample ID: Treatment Plant Effluent, Day 3

Test Name	Test Results	Qual	Method	Quant Limit	Tech	Analysis Date
1,1-Dichloroethane	<0.0100 mg/l	V	SW846 8260	0.0010	JA	5/17/15
1,2-Dichloroethane	<0.0100 mg/l		SW846 8260	0.0010	JA	5/17/15
trans-1,2-Dichloroethene	<0.0100 mg/l	Q	SW846 8260	0.0010	JA	5/17/15
trans-1,3-Dichloropropene	<0.0100 mg/l		SW846-8260	0.0010	JA	5/17/15
1,1-Dichloroethene	<0.0100 mg/l	Q	SW846 8260	0.0010	JA	5/17/15
1,2-Dichloropropane	<0.0100 mg/l		SW846-8260	0.0010	JA	5/17/15
trans-1,3-Dichloropropene	<0.0100 mg/l		SW846-8260	0.0010	JA	5/17/15
Styrene	<0.0100 mg/l		SW846 8260	0.0010	JA	5/17/15
Methylene Chloride	<0.0100 mg/l		SW846 8260	0.0010	JA	5/17/15
Methyl Chloride	<0.0100 mg/l		SW846-8260	0.0010	JA	5/17/15
Methyl Bromide	<0.0100 mg/l		SW846-8260	0.0010	JA	5/17/15
1,1,2,2-Tetrachloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	5/17/15
Tetrachloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	5/17/15
Toluene	<0.0100 mg/l		SW846 8260	0.0010	JA	5/17/15
1,1,1-Trichloroethane	<0.0100 mg/l		SW846 8260	0.0010	JA	5/17/15
1,1,2-Trichloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	5/17/15
Trichloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	5/17/15
Trichlorofluoromethane	<0.0100 mg/l	Q	SW846-8260	0.0010	JA	5/17/15
Vinyl Chloride	<0.0100 mg/l	Q	SW846 8260	0.0010	JA	5/17/15
Xylene	<0.0300 mg/l		SW846 8260	0.0030	JA	5/17/15
Temp Upon Receipt	3.8 C	N		0	SAB	5/16/15
Transported on loose ice	YES			0	SAB	5/16/15
Digestion, Cyanide, Water	1 ml		SM 4500 CN C		APO	5/18/15
Digestion, Ammonia Nitrogen	1 ml		SM 4500 NH3 B		APO	5/19/15
Digestion, ICP/MS 200.8	50 ml		EPA 200.8		APO	5/18/15
Mercury	50 ml		EPA 245.7	50	CS	5/20/15

Data Qualifiers:

N = Analyte is NOT accredited under the HML scope of accreditation

Q = Second Source Calibration Verification was outside QC limits

V = Continuing Calibration Verification was outside QC limits

VOC Analysis: X= Bromomethane fails in the initial calibration. Calibration passes using the average % RSD.

Bromomethane area counts fail low in the Continuing Calibration Verification (CCV) at 5.0.

Dibromochloromethane area counts fail low in the CCV at 10.0.

PA DEP 40-417
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Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 6/2/2015

Page 4 of 4

Material Tested:	Non Potable Water	HawkMtn WO #:	1505-00134-001
Date Sampled:	05/16/2015	Time Sampled:	9:00
Date Received:	05/16/2015	Sampler:	CLIENT
		Sample Point ID:	Effluent, Day 3

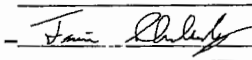
Client Sample ID: Treatment Plant Effluent, Day 3

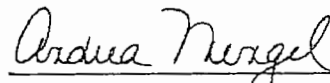
<u>Test Name</u>	<u>Test Results</u>	<u>Qual</u>	<u>Method</u>	<u>Quant</u> <u>Limit</u>	<u>Tech</u>	<u>Analysis Date</u>
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MBAS, calculated as LAS, molecular weight 60.

These results relate only to the sample noted above.

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Francis Smukauskas, Interim Technical Direc


Andrea Mengel, Quality Director



PA DEP 40-417
EPA PA00169

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

HAWKMTN LABS, INC.
201 W. Clay Ave., Hazle Township, PA 18202
Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples Intact?	Y	N
Transported on ice?	Y	N
COC intact and complete?	Y	N
Correct containers?	Y	N
Adequate samples?	Y	N
Volatiles: headspace present?	Y	N
Completed by:	JAB	
Samples/COC/Analysis agree?	Y	N

Amn

Subject Line: Quarterly Treatment Plant Effluent, Day 3
Work Order #: 1505-00134 Sample ID: Effluent, Day 3
Sample 001: Treatment Plant Effluent, Day 3

Matrix: Non Potable Water

pH, Field	WA-FPH	7.54	su
Temp Upon Receipt	QC-TEMPREC	3.8	C
Transported on loose ice	QC-ICE	yes	
pH meter ID	QC-PHMETR		

Tech
CLT
SAB
SAB
SAB

Bottles:

- ☒ 2 Glass, 1 Liter H2SO4
- ☒ 1 Plastic, 500 ml NaOH Pellets + 1g Ascorbic Acid
- ☒ 1 plastic half gallon Unpreserved
- ☒ Plastic, 250ml HNO3
- ☒ Plastic, 500 ml H2SO4
- ☒ TSS Plastic, 1 Liter Unpreserved
- ☒ 3 Vials, 40ml HCL + 2 trip blanks
- ☒ 3 Vials, 40 ml Unpreserved + 2 trip blanks

Printed By: HH

Printed On: 4/16/2015

Approved By: A/H

Sampling Comments:

Bottles Made By: HH Bottles Checked By: YG Composite Sample: Start Time/Date: End Time/Date:

NOTES:

Sampled By:	MIKE Kowaniak	Date:	5-16	Time:	0900
Relinquished By:	MIKE Kowaniak		5-16		0945
Received By:	Holly Hill		5-16-15		9:45
Relinquished By:	Holly Hill		5-16-15		10:56
Received at Lab By:	Stacy Bray		5/16/15		16:20
Logged in By:	Quanda Parrot		5/18/15		0701

orig to karen
cc: Jim



www.scrantonsewer.org

Scranton Sewer Authority

Phone: 570-348-5330

312 Adams Avenue, Scranton, PA 18503

Fax: 570-348-5359

August 11, 2015

James Eiden
Keystone Sanitary Landfill
Dunham Dr. PO Box #249
Dunmore, PA 18512

Dear James Eiden,

Please address all future Industrial Pretreatment correspondence to:

Scranton Sewer Authority
c/o Christine Wesolowski, WWTP Manager
312 Adams Ave.
Scranton, PA 18505

Thank you for your cooperation in this matter.

Sincerely,

Christine Wesolowski
WWTP Manager
Scranton Sewer Authority
Office # 570-348-5340
Fax# 570-346-6063

CC: Joe Dexter



April 13, 2015

Mr. Jay Nardone
Scranton Sewer Authority
312 Adams Avenue
Scranton, PA 18503

RE: LEACHATE/TREATMENT PLANT EFFLUENT

Dear Mr. Barrett:

Attached please find the analysis for the Leachate/Treatment Plant Effluent and the Chain of Custody for the first quarter.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please call.

Sincerely,

A handwritten signature in cursive script that reads "Joseph E. Dexter".

Joseph E. Dexter, P.E.
Site Manager



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Report Narrative

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 4/10/2015

Page 1 of 3

HawkMtn WO #: 1502-00126
Subject Line: Quarterly Treatment Plant Effluent, Day 1

Any information provided by client (CLT) has not been performed by HML and is not within the HML scope of accreditation.

All solid samples are reported on an "as received" basis unless otherwise noted.

Data Qualifiers:

- A = Insufficient sample to run all required quality control
- B = Analyte found in the method blank
- C = Analyte has been confirmed by another instrument or method
- D = Sample or extract was analyzed at a higher dilution.
- E = Analyte exceeds the upper limit of the calibration curve
- F = Lab fortified blank had a difference outside the QC limits
- G = Failure in the ending calibration check. The average sum for the ending calibration check meets method requirements.
- H = Sample run past hold time
- I = Initial Calibration Verification was outside QC limits
- J = Estimated concentration of an analyte between MDL (LOD) and Reporting Limit (LOQ)
- K = Dissolved sample was not run because total was non-detect
- L = Sample not received in proper container
- M = Matrix spike recovery was outside QC limits
- N = Analyte is NOT accredited under the HML scope of accreditation
- Q = Second Source Calibration Verification was outside QC limits
- R = Duplicate/Matrix spike duplicate had a relative percent difference outside QC limits
- S = Surrogate out of control limits
- V = Continuing Calibration Verification was outside QC limits
- X = User defined data qualifier

Limit of Quantitation (LOQ) = Laboratory Reporting Limit

Limit of Detection (LOD) = Laboratory Detection Limit

The test results meet the requirements of 25 PA Code and Chapter 252, except where noted.

The information contained in this analytical report is the sole property of Hawk MTN Laboratories, Inc.

and that of the client. It cannot be reproduced in any form without the consent of Hawk MTN Labs, Inc. or the client for which this report was issued. The results contained in this report(s) are only representative of the sample(s) received. Conditions are dependant on location and time of the sampling event.

Hawk MTN Laboratories, Inc. is not responsible for use or interpretation of the data included herein.



PA DEP 40-417
EPA PA00169



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Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 4/10/2015

Page 2 of 3

Material Tested: Non Potable Water HawkMtn WO #: 1502-00126-001
Date Sampled: 03/25/2015 Time Sampled: 8:00 Sampler: CLIENT
Date Received: 03/25/2015 Sample Point ID: Effluent, Day 1

Client Sample ID: Treatment Plant Effluent, Day 1

Test Name	Test Results	Qual	Method	Quant Limit	Tech	Analysis Date/Time
pH, Field	8.5 su	N	SM 4500-H+B	0	Client	3/25/15
Color, Platinum-Cobalt	460 Pt-Co unit	N	SM 2120 B	1.0	JB	4/1/15
Total Suspended Solids	24 mg/l		SM 2540 D	5	NAM	3/26/15
Biochemical Oxygen Demand	34.9 mg/l		SM 5210 B	6	EM	3/25/15
Cyanide	<0.01 mg/l		SM 4500-CN-C/E	0.01	APO	3/27/15
Surfactants, MBAS	0.9 mg/l		SM 5540 C	2	JO	3/26/15
Ammonia-Nitrogen	167 mg/l		SM 4500-NH3 F	0.5	APO	3/26/15
Asenic, Total ICP-MS	0.0667 mg/l		EPA 200.8	0.001	EW	4/6/15
Cadmium, Total ICP-MS	0.0013 mg/l	D,J,R	EPA 200.8	0.001	EW	4/2/15
Copper, Total ICP-MS	0.0149 mg/l	D	EPA 200.8	0.001	EW	4/6/15
Chromium, Total ICP-MS	0.0733 mg/l	D	EPA 200.8	0.001	EW	4/6/15
Chromium, Hexavalent	<0.25 mg/l	M	SM 3500-Cr B	0.25	JB	3/25/15
Mercury, Total	<0.0001 mg/l	D	EPA 245.7	0.0001	CS	4/3/15
Nickel, Total ICP-MS	0.0750 mg/l	D	EPA 200.8	0.001	EW	4/6/15
Lead, Total ICP-MS	0.0011 mg/l		EPA 200.8	0.001	EW	4/2/15
Silver, Total ICP-MS	<0.005 mg/l	D,J	EPA 200.8	0.005	EW	4/2/15
Zinc, Total ICP-MS	0.0368 mg/l		EPA 200.8	0.005	EW	4/6/15
Total Petroleum Hydrocarbon	<2.0 mg/l		EPA 1664	2.0	JO	4/1/15
Oil and Grease	<4.0 mg/l		EPA 1664 A	4.0	JO	3/27/15
Acrolein	<0.0500 mg/l		SW846-8260	0.0050	JA	3/26/15
Acrylonitrile	<0.0200 mg/l		SW846-8260	0.0020	JA	3/26/15
Benzene	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Bromodichloromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Bromoform	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Bromomethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Carbon Tetrachloride	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Dibromochloromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Chlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Chloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
2-Chloroethyl Vinyl Ether	<0.0200 mg/l		SW846-8260	0.0020	JA	3/26/15
Chloroform	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Chloromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
1,2-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
1,3-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
1,4-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15

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Certificate of Analysis

Customer: Keystone Landfill, Inc.
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Report Date: 4/10/2015

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Material Tested: Non Potable Water HawkMtn WO #: 1502-00126-001
Date Sampled: 03/25/2015 Time Sampled: 8:00 Sampler: CLIENT
Date Received: 03/25/2015 Sample Point ID: Effluent, Day 1

Client Sample ID: Treatment Plant Effluent, Day 1

<u>Test Name</u>	<u>Test Results</u>	<u>Qual</u>	<u>Method</u>	<u>Quant</u> <u>Limit</u>	<u>Tech</u>	<u>Analysis Date</u>
1,1-Dichloroethane	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
1,2-Dichloroethane	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
trans-1,2-Dichloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
trans-1,3-Dichloropropene	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
1,1-Dichloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
1,2-Dichloropropane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
cis-1,3-Dichloropropene	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
thylbenzene	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
Methylene Chloride	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
Methyl Chloride	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Methyl Bromide	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
1,1,2,2-Tetrachloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Tetrachloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
Toluene	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
1,1,1-Trichloroethane	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
1,1,2-Trichloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Trichloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
Trichlorofluoromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Vinyl Chloride	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
Xylene	<0.0300 mg/l		SW846 8260	0.0030	JA	3/26/15
Temp Upon Receipt	4.6 C	N		0	IJO	3/25/15
Transported on loose ice	YES			0	IJO	3/25/15
Digestion, Cyanide, Water	1 ml		SM 4500 CN E		APO	3/27/15
Digestion, Ammonia Nitrogen	1 ml		SM 4500 NH3 F		APO	3/26/15
Digestion, ICP/MS 200.8	50 ml		EPA 200.8		APO	3/26/15
Mercury	50 ml		EPA 245.7	50	CS	4/3/15

MBAS, calculated as LAS, molecular weight 60.

These results relate only to the sample noted above.

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Ronald Andrae, Technical Director

Andrea Mengel, Quality Director



PA DEP 40-417
EPA PA00169

Customer: Keystone Landfill, Inc.
249 Durham Drive
Dunmore, PA 18512

HAWKMTN LABS, INC.
201 W. Clay Ave., Hazle Township, PA 18202
Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples intact?	Y	N
Transported on ice?	Y	N
COC intact and complete?	Y	N
Correct containers?	Y	N
Adequate samples?	Y	N
Volatiles: headspace present?	Y	N
Completed by:	STC	
Samples/COC/Analysis agree?	Y	N

Subject Line: Quarterly Treatment Plant Effluent, Day 1
Work Order #: 1502-00126 Sample ID: Effluent, Day 1
Sample 001: Treatment Plant Effluent, Day 1

Matrix: Non Potable Water

pH, Field	WA-FPH	8.5	SU
Temp Upon Receipt	QC-TEMPREC	4.6	C
Transported on loose ice	QC-ICE	Yes	
pH meter ID	QC-PHMETER	N/A	

Tech: STC
STC
STC

Bottles:

- ☒ 2 Glass, 1 Liter H2SO4
- ☒ 1 Plastic, 500 ml NaOH Pellets +1g Ascorbic Acid
- ☒ 1 plastic half gallon Unpreserved
- ☒ Plastic, 250ml HNO3
- ☒ Plastic, 500 ml H2SO4
- ☒ TSS Plastic, 1 Liter Unpreserved
- ☒ 3 Vials, 40ml HCL + 2 trip blanks
- ☒ 3 Vials, 40 ml Unpreserved + 2 trip blanks

Printed By: HH

Printed On: 2/13/2015

Approved By: STC

Sampling Comments:

Bottles Made By: HH Bottles Checked By: STC Composite Sample: Start Time/Date: 3/24/15 8am End Time/Date: 3/25/15

NOTES:

Headspace HCL vial B

Sampled By: [Signature]

Relinquished By: [Signature]

Received By: [Signature]

Relinquished By: [Signature]

Received at Lab By: [Signature]

Logged in By: [Signature]

Date: Time:

3/25/15 8am

3/25/15 1045

3/25/15 1045

3/25/15 1245

3/25/15 142 APO

1437



201 West Clay Avenue / Hazle Township, PA 18202

PHONE (570) 455-6011 - FAX (570) 455-6321

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Report Narrative

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 4/10/2015

Page 1 of 3

HawkMtn WO #: 1502-00127
Subject Line: Quarterly Treatment Plant Effluent, Day 2

Any information provided by client (CLT) has not been performed by HML and is not within the HML scope of accreditation.

All solid samples are reported on an "as received" basis unless otherwise noted.

Data Qualifiers:

- A = Insufficient sample to run all required quality control
- B = Analyte found in the method blank
- C = Analyte has been confirmed by another instrument or method
- D = Sample or extract was analyzed at a higher dilution.
- E = Analyte exceeds the upper limit of the calibration curve
- F = Lab fortified blank had a difference outside the QC limits
- G = Failure in the ending calibration check. The average sum for the ending calibration check meets method requirements.
- H = Sample run past hold time
- I = Initial Calibration Verification was outside QC limits
- J = Estimated concentration of an analyte between MDL (LOD) and Reporting Limit (LOQ)
- K = Dissolved sample was not run because total was non-detect
- L = Sample not received in proper container
- M = Matrix spike recovery was outside QC limits
- N = Analyte is NOT accredited under the HML scope of accreditation
- Q = Second Source Calibration Verification was outside QC limits
- R = Duplicate/Matrix spike duplicate had a relative percent difference outside QC limits
- S = Surrogate out of control limits
- V = Continuing Calibration Verification was outside QC limits
- X = User defined data qualifier

Limit of Quantitation (LOQ) = Laboratory Reporting Limit

Limit of Detection (LOD) = Laboratory Detection Limit

The test results meet the requirements of 25 PA Code and Chapter 252, except where noted.

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and that of the client. It cannot be reproduced in any form without the consent of Hawk MTN Labs, Inc. or the client for which this report was issued. The results contained in this report(s) are only representative of the sample(s) received. Conditions are dependant on location and time of the sampling event.

Hawk MTN Laboratories, Inc. is not responsible for use or interpretation of the data included herein.



PA DEP 40-417
EPA PA00169



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Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 4/10/2015

Page 2 of 3

Material Tested: Non Potable Water HawkMtn WO #: 1502-00127-001
Date Sampled: 03/26/2015 Time Sampled: 11:20 Sampler: CLIENT
Date Received: 03/26/2015 Sample Point ID: Effluent, Day 2

Client Sample ID: Treatment Plant Effluent, Day 2

Test Name	Test Results	Qual	Method	Quant Limit	Tech	Analysis Date/Time
pH, Field	8.5 su	N	SM 4500-H+B	0	Client	3/26/15
Color, Platinum-Cobalt	380 Pt-Co unit	N	SM 2120 B	1.0	JB	4/1/15
Total Suspended Solids	17 mg/l		SM 2540 D	5	NAM	3/27/15
Biochemical Oxygen Demand	19.8 mg/l		SM 5210 B	6	EM	3/26/15
Cyanide	<0.01 mg/l		SM 4500-CN-C/E	0.01	APO	3/27/15
Surfactants, MBAS	0.58 mg/l		SM 5540 C	2	JO	3/26/15
Ammonia-Nitrogen	49.3 mg/l		SM 4500-NH3 F	0.5	APO	3/31/15
Arsenic, Total ICP-MS	0.0430 mg/l		EPA 200.8	0.001	EW	4/6/15
Cadmium, Total ICP-MS	<0.001 mg/l		EPA 200.8	0.001	EW	4/2/15
Copper, Total ICP-MS	0.0126 mg/l	D	EPA 200.8	0.001	EW	4/6/15
Chromium, Total ICP-MS	0.0461 mg/l	D	EPA 200.8	0.001	EW	4/6/15
Chromium, Hexavalent	<0.25 mg/l	M	SM 3500-Cr B	0.25	JB	3/27/15
Mercury, Total	<0.0001 mg/l	D	EPA 245.7	0.0001	CS	4/3/15
Nickel, Total ICP-MS	0.0464 mg/l	D	EPA 200.8	0.001	EW	4/6/15
Lead, Total ICP-MS	<0.001 mg/l		EPA 200.8	0.001	EW	4/2/15
Silver, Total ICP-MS	<0.005 mg/l		EPA 200.8	0.005	EW	4/2/15
Zinc, Total ICP-MS	0.0408 mg/l		EPA 200.8	0.005	EW	4/6/15
Total Petroleum Hydrocarbon	<2.0 mg/l		EPA 1664	2.0	JO	4/1/15
Oil and Grease	<4.0 mg/l		EPA 1664 A	4.0	JO	3/27/15
Acrolein	<0.0500 mg/l		SW846-8260	0.0050	JA	3/26/15
Acrylonitrile	<0.0200 mg/l		SW846-8260	0.0020	JA	3/26/15
Benzene	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
Bromodichloromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Bromoform	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Bromomethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Carbon Tetrachloride	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Dibromochloromethane	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
Chlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Chloroethane	<0.0100 mg/l	M	SW846-8260	0.0010	JA	3/26/15
2-Chloroethyl Vinyl Ether	<0.0200 mg/l		SW846-8260	0.0020	JA	3/26/15
Chloroform	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Chloromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
1,2-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
1,3-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
1,4-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15



PA DEP 40-417
EPA PA00169

Certificate of Analysis

Customer: Keystone Landfill, Inc.
 249 Dunham Drive
 Dunmore, PA 18512

Report Date: 4/10/2015

Page 3 of 3

Material Tested:	Non Potable Water	HawkMtn WO #:	1502-00127-001
Date Sampled:	03/26/2015	Time Sampled:	11:20
Date Received:	03/26/2015	Sampler:	CLIENT
		Sample Point ID:	Effluent, Day 2

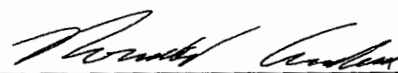
Client Sample ID: Treatment Plant Effluent, Day 2

<u>Test Name</u>	<u>Test Results</u>	<u>Qual</u>	<u>Method</u>	<u>Quant</u> <u>Limit</u>	<u>Tech</u>	<u>Analysis Date</u>
1,1-Dichloroethane	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
1,2-Dichloroethane	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
trans-1,2-Dichloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
trans-1,3-Dichloropropene	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
1,1-Dichloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
1,2-Dichloropropane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
cis-1,3-Dichloropropene	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Phenylbenzene	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
Methylene Chloride	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
Methyl Chloride	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Methyl Bromide	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
1,1,2,2-Tetrachloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Tetrachloroethene	<0.0100 mg/l	M	SW846 8260	0.0010	JA	3/26/15
Toluene	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
1,1,1-Trichloroethane	<0.0100 mg/l	M	SW846 8260	0.0010	JA	3/26/15
1,1,2-Trichloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Trichloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
Trichlorofluoromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/26/15
Vinyl Chloride	<0.0100 mg/l		SW846 8260	0.0010	JA	3/26/15
Xylene	<0.0300 mg/l		SW846 8260	0.0030	JA	3/26/15
Temp Upon Receipt	3.8 C	N		0	JZO	3/26/15
Transported on loose ice	YES			0	JZO	3/26/15
Digestion, Cyanide, Water	1 ml		SM 4500 CN E		APO	3/27/15
Digestion, Ammonia Nitrogen	1 ml		SM 4500 NH3 F		APO	3/30/15
Digestion, ICP/MS 200.8	50 ml		EPA 200.8		APO	3/30/15
Mercury	50 ml		EPA 245.7	50	CS	4/3/15

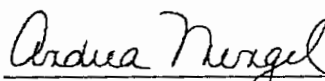
MBAS, calculated as LAS, molecular weight 60.

These results relate only to the sample noted above.

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Ronald Andrae, Technical Director



Andrea Mengel, Quality Director

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

HAWKMTN LABS, INC.
201 W. Clay Ave., Hazle Township, PA 18202
Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples Intact?	Y	N
Transported on ice?	Y	N
COC intact and complete?	Y	N
Correct containers?	Y	N
Adequate samples?	Y	N
Volatiles: headspace present?	Y	N
Completed by:	JZO	
Samples/COC/Analysis agree?	Y	N

Subject Line: Quarterly Treatment Plant Effluent, Day 2
Work Order #: 1502-00127 Sample ID: Effluent, Day 2
Sample 001: Treatment Plant Effluent, Day 2

Matrix: Non Potable Water

pH, Field	WA-FPH	8.5	su
Temp Upon Receipt	QC-TEMPREC	3.8	C
Transported on loose ice	QC-ICE	Yes	
pH meter ID	QC-PHMETER	N/A	

Tech	Bottles:
JZO	<input checked="" type="checkbox"/> 2 Glass, 1 Liter H2SO4
JZO	<input checked="" type="checkbox"/> 1 Plastic, 500 ml NaOH Pellets +1g Ascorbic Acid
JZO	<input checked="" type="checkbox"/> 1 plastic half gallon Unpreserved
JZO	<input checked="" type="checkbox"/> Plastic, 250ml HNO3
JZO	<input checked="" type="checkbox"/> Plastic, 500 ml H2SO4
JZO	<input checked="" type="checkbox"/> TSS Plastic, 1 Liter Unpreserved
JZO	<input checked="" type="checkbox"/> 3 Vials, 40ml HCL + 2 trip blanks
JZO	<input checked="" type="checkbox"/> 3 Vials, 40 ml Unpreserved + 2 trip blanks

Printed By: HH

Printed On: 2/13/2015

Approved By: JH

Sampling Comments:

Bottles Made By: HH Bottles Checked By: JH Composite Sample: Start Time/Date: 3/25 End Time/Date: 3/26

NOTES:

Sampled By:

Relinquished By:

Received By:

Relinquished By:

Received at Lab By:

Logged in By:

Date:	Time:
3/26/15	11:20am
3/26/15	11:30
3/26/15	11:30
3/26/15	1355
3/26/15	1419



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Report Narrative

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 4/10/2015

Page 1 of 3

HawkMtn WO #: 1502-00128
Subject Line: Quarterly Treatment Plant Effluent, Day 3

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All solid samples are reported on an "as received" basis unless otherwise noted.

Data Qualifiers:

- A = Insufficient sample to run all required quality control
- B = Analyte found in the method blank
- C = Analyte has been confirmed by another instrument or method
 - Sample or extract was analyzed at a higher dilution.
- Analyte exceeds the upper limit of the calibration curve
- F = Lab fortified blank had a difference outside the QC limits
- G = Failure in the ending calibration check. The average sum for the ending calibration check meets method requirements.
- H = Sample run past hold time
- I = Initial Calibration Verification was outside QC limits
- J = Estimated concentration of an analyte between MDL (LOD) and Reporting Limit (LOQ)
- K = Dissolved sample was not run because total was non-detect
- L = Sample not received in proper container
- M = Matrix spike recovery was outside QC limits
- N = Analyte is NOT accredited under the HML scope of accreditation
- Q = Second Source Calibration Verification was outside QC limits
- R = Duplicate/Matrix spike duplicate had a relative percent difference outside QC limits
- S = Surrogate out of control limits
- V = Continuing Calibration Verification was outside QC limits
- X = User defined data qualifier

Limit of Quantitation (LOQ) = Laboratory Reporting Limit

Limit of Detection (LOD) = Laboratory Detection Limit

The test results meet the requirements of 25 PA Code and Chapter 252, except where noted.

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PA DEP 40-417
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Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 4/10/2015

Page 2 of 3

Material Tested: Non Potable Water HawkMtn WO #: 1502-00128-001
Date Sampled: 03/27/2015 Time Sampled: 10:00 Sampler: CLIENT
Date Received: 03/27/2015 Sample Point ID: Effluent, Day 3

Client Sample ID: Treatment Plant Effluent, Day 3

Test Name	Test Results	Qual	Method	Quant Limit	Tech	Analysis Date/Time
pH, Field	8.6 su	N	SM 4500-H+B	0	Client	3/27/15
Color, Platinum-Cobalt	320 Pt-Co unit	N	SM 2120 B	1.0	JB	4/1/15
Total Suspended Solids	19 mg/l		SM 2540 D	5	NAM	3/31/15
Biochemical Oxygen Demand	17.6 mg/l		SM 5210 B	6	EM	3/27/15
Cyanide	0.01 mg/l		SM 4500-CN-C/E	0.01	APO	3/27/15
Surfactants, MBAS	0.94 mg/l		SM 5540 C	2	JO	3/27/15
Ammonia-Nitrogen	72.4 mg/l		SM 4500-NH3 F	0.5	APO	3/31/15
Asenic, Total ICP-MS	0.0421 mg/l		EPA 200.8	0.001	EW	4/6/15
Cadmium, Total ICP-MS	<0.001 mg/l		EPA 200.8	0.001	EW	4/2/15
Copper, Total ICP-MS	0.0098 mg/l	D	EPA 200.8	0.001	EW	4/6/15
Chromium, Total ICP-MS	0.0467 mg/l	D	EPA 200.8	0.001	EW	4/6/15
Chromium, Hexavalent	<0.25 mg/l		SM 3500-Cr B	0.25	JB	3/27/15
Mercury, Total	<0.0001 mg/l	D	EPA 245.7	0.0001	CS	4/3/15
Nickel, Total ICP-MS	0.0474 mg/l	D	EPA 200.8	0.001	EW	4/6/15
Lead, Total ICP-MS	0.0010 mg/l		EPA 200.8	0.001	EW	4/2/15
Silver, Total ICP-MS	<0.005 mg/l		EPA 200.8	0.005	EW	4/2/15
Zinc, Total ICP-MS	0.0364 mg/l		EPA 200.8	0.005	EW	4/6/15
Total Petroleum Hydrocarbon	<2.0 mg/l		EPA 1664	2.0	JO	4/1/15
Oil and Grease	<4.0 mg/l		EPA 1664 A	4.0	JO	3/27/15
Acrolein	<0.0500 mg/l		SW846-8260	0.0050	JA	3/27/15
Acrylonitrile	<0.0200 mg/l		SW846-8260	0.0020	JA	3/27/15
Benzene	<0.0100 mg/l		SW846-8260	0.0010	JA	3/27/15
Bromodichloromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/27/15
Bromoform	<0.0100 mg/l		SW846-8260	0.0010	JA	3/27/15
Bromomethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/27/15
Carbon Tetrachloride	<0.0100 mg/l		SW846-8260	0.0010	JA	3/27/15
Dibromochloromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/27/15
Chlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	3/27/15
Chloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/27/15
2-Chloroethyl Vinyl Ether	<0.0200 mg/l		SW846-8260	0.0020	JA	3/27/15
Chloroform	<0.0100 mg/l		SW846-8260	0.0010	JA	3/27/15
Chloromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/27/15
1,2-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	3/27/15
1,3-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	3/27/15
1,4-Dichlorobenzene	<0.0100 mg/l		SW846-8260	0.0010	JA	3/27/15

PA DEP 40-417
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Certificate of Analysis

Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

Report Date: 4/10/2015

Page 3 of 3

Material Tested: Non Potable Water HawkMtn WO #: 1502-00128-001
Date Sampled: 03/27/2015 Time Sampled: 10:00 Sampler: CLIENT
Date Received: 03/27/2015 Sample Point ID: Effluent, Day 3

Client Sample ID: Treatment Plant Effluent, Day 3

Test Name	Test Results	Qual	Method	Quant	Tech	Analysis Date
				Limit		
1,1-Dichloroethane	<0.0100 mg/l		SW846 8260	0.0010	JA	3/27/15
1,2-Dichloroethane	<0.0100 mg/l		SW846 8260	0.0010	JA	3/27/15
trans-1,2-Dichloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	3/27/15
trans-1,3-Dichloropropene	<0.0100 mg/l		SW846-8260	0.0010	JA	3/27/15
1,1-Dichloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	3/27/15
1,2-Dichloropropane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/27/15
cis-1,3-Dichloropropene	<0.0100 mg/l		SW846-8260	0.0010	JA	3/27/15
Tolylbenzene	<0.0100 mg/l		SW846 8260	0.0010	JA	3/27/15
Dichloroethylene Chloride	<0.0100 mg/l		SW846 8260	0.0010	JA	3/27/15
Methyl Chloride	<0.0100 mg/l		SW846-8260	0.0010	JA	3/27/15
Methyl Bromide	<0.0100 mg/l		SW846-8260	0.0010	JA	3/27/15
1,1,2,2-Tetrachloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/27/15
Tetrachloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	3/27/15
Toluene	<0.0100 mg/l		SW846 8260	0.0010	JA	3/27/15
1,1,1-Trichloroethane	<0.0100 mg/l		SW846 8260	0.0010	JA	3/27/15
1,1,2-Trichloroethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/27/15
Trichloroethene	<0.0100 mg/l		SW846 8260	0.0010	JA	3/27/15
Trichlorofluoromethane	<0.0100 mg/l		SW846-8260	0.0010	JA	3/27/15
Vinyl Chloride	<0.0100 mg/l		SW846 8260	0.0010	JA	3/27/15
Xylene	<0.0300 mg/l	G	SW846 8260	0.0030	JA	3/27/15
Temp Upon Receipt	1.2 C	N		0	DH	3/27/15
Transported on loose ice	YES			0	DH	3/27/15
Digestion, Cyanide, Water	1 ml		SM 4500 CN E		APO	3/27/15
Digestion, Ammonia Nitrogen	1 ml		SM 4500 NH3 F		APO	3/30/15
Digestion, ICP/MS 200.8	50 ml		EPA 200.8		APO	3/30/15
Mercury	50 ml		EPA 245.7	50	CS	4/3/15

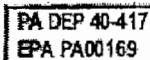
MBAS, calculated as LAS, molecular weight 60.

These results relate only to the sample noted above.

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Ronald Andrae, Technical Director

Andrea Mengel, Quality Director



Customer: Keystone Landfill, Inc.
249 Dunham Drive
Dunmore, PA 18512

HAWKMTN LABS, INC.
201 W. Clay Ave., Hazle Township, PA 18202
Phone (570) 455-6011 Fax (570) 455-6321
Chain of Custody

Samples intact?	Y / N
Transported on ice?	Y / N
COC intact and complete?	Y / N
Correct containers?	Y / N
Adequate samples?	Y / N
Volatiles: headspace present?	Y / N
Completed by:	Y / N
Samples/COC/Analysis agree?	Y / N

Subject Line: Quarterly Treatment Plant Effluent, Day 3
Work Order #: 1502-00128 Sample ID: Effluent, Day 3
Sample 001: Treatment Plant Effluent, Day 3

Matrix: Non Potable Water

pH, Field	WA-FPH	8.6	su
Temp Upon Receipt	QC-TEMPREC	1.2	C
Transported on loose ice	QC-ICE	Yes	
pH meter ID	QC-PHMETER	YSEPP N/A	

OH 3-27-15

Tech: YH
Bottles:
☒ 2 Glass, 1 Liter H2SO4
☒ 1 Plastic, 500 ml NaOH Pellets + 1g Ascorbic Acid
☒ 1 plastic half gallon Unpreserved
☒ Plastic, 250ml HNO3
☒ Plastic, 500 ml H2SO4
☒ TSS Plastic, 1 Liter Unpreserved
☒ 3 Vials, 40ml HCL + 2 trip blanks
☒ 3 Vials, 40 ml Unpreserved + 2 trip blanks

Printed By: HH

Printed On: 2/13/2015

Approved By: YH

Sampling Comments:

Bottles Made By: HH Bottles Checked By: YH Composite Sample: Start Time/Date: 3/26/15 End Time/Date: 3/27/15

NOTES:

Sampled By: James Sider
Relinquished By: YH
Received By: YH
Relinquished By: YH
Received at Lab By: YH
Logged in By: YH

Date:	Time:
<u>3/27/15</u>	<u>10:00</u>
<u>3/27/15</u>	<u>10:00</u>
<u>3-27-15</u>	<u>10:32</u>
<u>3-27-15</u>	<u>12:45</u>
<u>3/27/15</u>	<u>1345</u>